

Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	17	94.4	794	1	AJ641058	AJ641058 AJ641058
C 2	16	88.9	312	2	BE153987	BE153987 PM0-HT033
C 3	16	88.9	340	3	BI432519	BI432519 EST535280
C 4	16	88.9	439	8	TI4826	TI4826 CR268 lamb
C 5	16	88.9	500	3	BP191026	BP191026 BP191026
C 6	16	88.9	652	2	BG600462	BG600462 EST505357
C 7	16	88.9	740	8	CX409188	CX409188 JGI_X2T32
C 8	16	88.9	747	10	CL163941	CL163941 107_370
C 9	16	88.9	752	10	CW385975	CW385975 fbs5001f
C 10	16	88.9	759	2	BG889203	BG889203 EST515054
C 11	16	88.9	761	10	CL163940	CL163940 104_370
C 12	16	88.9	1030	10	CL033121	CL033121 CH216-367
C 13	15	83.3	85	6	CD963839	CD963839 SDY_133_G
C 14	15	83.3	95	10	C5650188	C5650188 OST18026
C 15	15	83.3	102	10	C671007	C671007 OST472167
C 16	15	83.3	208	7	CO323095	CO323095 EK189652
C 17	15	83.3	238	10	C5556891	C5556891 OST17287
C 18	15	83.3	247	8	CX626914	CX626914 GAN008N05
C 19	15	83.3	285	3	BI491822	BI491822 df15el12.w
C 20	15	83.3	306	2	BF353376	BF353376 QV1-HT063
C 21	15	83.3	308	2	BF184004	BF184004 RST2919.A
C 22	15	83.3	336	2	BG790049	BG790049 sae62d11

22

BE153987

OCUS BE153987 312 bp

```

DEFINITION PMO-HT0339-060400-009-C04 HT0339 Homo sapiens cDNA, mRNA sequence.
ACCESSION BE153987
VERSION BE153987.1 GI:8616617
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 312)
AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.
TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
PUBMED 10737800
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?c1=et2=PMO-HT0339-060400-009-C04&t3=2000-04-06&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 7
High quality sequence stop: 226.
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        1..312
            /organism="Homo sapiens"
            /mol_type="mRNA"
            /db_xref="taxon:9606"
            /dev_stage="Adult"
            /clone_lib="HT0339"
            /note="Organ: head neck; Vector: puc18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No.196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
ORIGIN
Query Match 88.9%; Score 16; DB 2; Length 312;
Best Local Similarity 68.8%; Pred. No. 1e+02;
Matches 11; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1 AUAUAUAGGCCCGC 16
|:|:|:|:|:|:|:|:|
Db 289 ATATTATGGCCCTGC 274

RESULT 3
BI432519/c
LOCUS BI432519 340 bp mRNA linear EST 30-APR-2003
DEFINITION EST535280 P. infestans-challenged potato leaf, compatible reaction
Solanum tuberosum cDNA clone PPCAR82 5' sequence, mRNA sequence.
ACCESSION BI432519
VERSION BI432519.1 GI:15257209
KEYWORDS EST.
SOURCE Solanum tuberosum (potato)
ORGANISM Solanum tuberosum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons; asterids; lamiids; Solanales; Solanaceae; Solanum.

PMO-HT0339-060400-009-C04 HT0339 Homo sapiens cDNA, mRNA sequence.
RESTRPO,S., Griffiths,H.M., Smart,C.D., Cho,J., Chiemingo,A., Bougri,O., Buelli,C.R., Roming,C.M., Fry,W.E. and Baker,B.
Generation of ESTs from Potato Leaves Challenged with Phytophthora infestans, Compatible Interaction
Unpublished (2000)
Contact: Robin Buell
The Institute for Genomic Research
9712 Medical Center Dr, Rockville, MD 20850, USA
Email: potato-array@tigr.org
This clone can be obtained from the University of Arizona Genomics Institute. Orders can be made through URL:
http://genome.arizona.edu/orders/
Seq primer: M13F-R.
FEATURES
    source
        1..340
            /organism="Solanum tuberosum"
            /mol_type="mRNA"
            /cultivar="Kennebec"
            /db_xref="taxon:4113"
            /clone="PPCAR82"
            /tissue_type="leaf"
            /dev_stage="6 week old"
            /lab_host="SOLR"
            /clone_lib="P. infestans-challenged potato leaf, compatible reaction"
            /note="Vector: pluescript SK(-); Site 1: EcoRI; Site 2: XhoI; supplier: Cornell University, Fry lab; sequencing: The Institute for Genomic Research; Whole plants were challenged with 20,000 sporangia/ml of the compatible P. infestans isolate US 940480. Leaf tissue was collected at 3, 6, 9, 12, 24, 48, 72 hours after inoculation and frozen in liquid nitrogen immediately upon removal. Kennebec plants showed first symptoms of infection at 48 hours after inoculation. NOTE: We cannot exclude the possibility that this sequence is actually derived from Phytophthora rather than potato."
ORIGIN
Query Match 88.9%; Score 16; DB 3; Length 340;
Best Local Similarity 68.8%; Pred. No. 1e+02;
Matches 11; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAUAUAGGCCCGCUC 18
|:|:|:|:|:|:|:|:|
Db 283 AATTATGGCCCTGCTC 268

RESULT 4
TI4826/c
LOCUS TI4826 439 bp mRNA linear EST 28-JUL-1995
DEFINITION crs268 lambdaZAPST Ricinus communis cDNA clone pcrs268, mRNA sequence.
ACCESSION TI4826
VERSION TI4826.1 GI:688463
KEYWORDS EST.
SOURCE Ricinus communis (castor bean)
ORGANISM Ricinus communis
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons; rosids; eurosids I; Malpighiales; Euphorbiaceae; Acalyphoideae; Acalyphaeae; Ricinus.
1 (bases 1 to 439)
vandeloo,F.J., Turner,S. and Somerville,C.
Expressed sequence tags from developing castor seeds
Plant Physiol. 108, 1141-1150 (1995)
Contact: Somerville CR
Carnegie Institution
Carnegie Institution, 290 Panama St, Stanford, CA 94305
Tel: 415251521
Email: crs@andrew.stanford.edu
Seq primer: T3.
FEATURES
    Location/Qualifiers

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source
1. .439
/organism="Ricinus communis"
/mol_type="mRNA"
/strain="Baker 296"
/db_xref="taxon:3988"
/clone_lib="lambdaZAPST"
/notes="Vector: lambdaZAPST; Site 1: EcoRI; Site 2: XhoI;
Poly(A) + RNA was purified from developing stage III to
stage V (Greenwood & Bewley, Can. J. Bot. 60:1751-1760,
1982) endosperm plus embryo of immature castor fruits.
cDNA was synthesized and cloned into lambdaZAPII according
to the instructions of the manufacturer (Stratagene):
synthesis was primed from the poly(A) tail, and cloned
directionally into XhoI (3') and EcoRI (5') sites. In few
cases, sequence data indicated that this directionality
was reversed. Partial cDNA clones predominate."

ORIGIN
Query Match      88.9%; Score 16; DB 8; Length 439;
Best Local Similarity 68.8%; Pred. No. 1e+02;
Matches 11; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAUUAUGGCCCGCUC 18
||:||||:|
Db 332 AATTATGGCCCTGCTC 317

RESULT 5
BP191026 500 bp mRNA linear EST 17-JUL-2003
LOCUS BP191026 planarian head cDNA Dugesia japonica cDNA clone 06171_HH,
DEFINITION mRNA sequence.
ACCESSION BP191026
VERSION BP191026.1 GI:32905550
SOURCE Dugesia japonica
ORGANISM Dugesia japonica
Eukaryota; Metazoa; Platyhelminthes; Turbellaria; Sericata;
Tricladida; Paludicola; Dugesidae; Dugesia.
1 (bases 1 to 500)
Mineta,K., Nakazawa,M., Cebria,F., Ikeo,K., Agata,K. and
Gojobori,T.
Origin and evolutionary process of the CNS elucidated by
comparative genomics analysis of planarian ESTs
Proc. Natl. Acad. Sci. U.S.A. 100 (13), 7666-7671 (2003)
12802012
Contact: Katsuhiko Mineta
National Institute of Genetics, Center for Information Biology and
DNA Data Bank of Japan
1111 Yata, Mishima Shizuoka 411-8540, Japan
Tel: 81-559-81-6847
Fax: 81-559-81-6848
Email: kmineta@lab.nig.ac.jp
These clones and additional information are obtained from our web
site: http://www.cib.nig.ac.jp/dda/.

FEATURES
Location/Qualifiers
source
1. .500
/organism="Dugesia japonica"
/mol_type="mRNA"
/db_xref="taxon:6161"
/clone="06171_HH"
/tissue_type="head"
/dev_stage="adult"
/clone_lib="planarian head cDNA"

ORIGIN
Query Match      88.9%; Score 16; DB 3; Length 500;
Best Local Similarity 62.5%; Pred. No. 1e+02;
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 2 UAAUUAUGGCCCGCUC 17
||:||||:|

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```

Db 353 TAAATTATGGCCCTGCT 368

RESULT 6
BG600462/c 652 bp mRNA linear EST 07-MAR-2003
LOCUS BG600462 cSTS Solanum tuberosum cDNA clone CSIS2911 5' sequence,
DEFINITION mRNA sequence.
ACCESSION BG600462
VERSION BG600462.1 GI:13617598
KEYWORDS EST.
SOURCE Solanum tuberosum (potato)
ORGANISM Solanum tuberosum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
asterids; lamids; Solanales; Solanaceae; Solanum.
1 (bases 1 to 652)
van der Hoeven,R., Bezzerides,J., Sun,H., Cho,J., Chiemingo,A.,
Bougri,O., Buell,C.R., Roming,C., Tanksley,S. and Baker,B.
Generations of ESTs from sprouting potato eyes
Unpublished (2000)
Contact: Robin Buell
The Institute for Genomic Research
9712 Medical Center Dr, Rockville, MD 20850, USA
Email: potato-array@tigr.org
This clone can be obtained from the University of Arizona Genomics
Institute. Orders can be made through URL:
http://genome.arizona.edu/orders/
Seq primer: M13F-R.

FEATURES
Location/Qualifiers
source
1. .652
/organism="Solanum tuberosum"
/mol_type="mRNA"
/cultivar="Kennebec"
/db_xref="taxon:4113"
/clone="cSTS2911"
/tissue_type="sprouting eyes from tubers"
/dev_stage="12-14 weeks post harvest"
/lab_host="SOLR"
/clone_lib="cSTS"
/notes="Vector: pBluescript SK(-); Site 1: EcoRI; Site 2:
XhoI; Various sizes of sprouting eyes (2mm to 15mm) were
taken from tubers. The tubers were incubated at 26C in the
dark for 2-3 weeks prior to sprouting. The eyes were
frozen in liquid nitrogen immediately upon removal from
tubers."

ORIGIN
Query Match      88.9%; Score 16; DB 2; Length 652;
Best Local Similarity 68.8%; Pred. No. 1.1e+02;
Matches 11; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAUUAUGGCCCGCUC 18
||:||||:|
Db 536 AATTATGGCCCTGCTC 521

RESULT 7
CX409188/c 740 bp mRNA linear EST 06-JAN-2005
LOCUS CX409188 JGI XZT32096.fwd NIH XGC tropfads Xenopus tropicalis cDNA clone
DEFINITION IMAGE:7608418 5', mRNA sequence.
ACCESSION CX409188
VERSION CX409188.1 GI:57189890
KEYWORDS EST.
SOURCE Xenopus tropicalis (western clawed frog)
ORGANISM Xenopus tropicalis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;
Xenopodinae; Xenopus; Silurana.
1 (bases 1 to 740)
Richardson,P., Lucas,S., Rohsars,D., Dettter,J.C., Ng,D.C.,
Brokstein,P. and Lindquist,E.A.

```


ACCESSION
VERSION
KEYWORDS

ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 102)
AUTHORS Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J.,
Piggott,J., BeltrandelRio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
Fridde,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C.,
Key,B.W. Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D.,
Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N.,
Zhu,Q., Person,C. and Sands,A.T.

TITLE Wnk1 kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
PUBMED 14610273

COMMENT Contact: Zambrowicz BP
OmniBank
Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: materials@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as
described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
Class: Gene Trap.

FEATURES
source Location/Qualifiers
1..102
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129Sv/Ev"
/db_xref="taxon:10090"
/clone="OST472166"
/cell_type="embryonic stem cell"
/clone_lib="Mus musculus 129Sv/Ev"

ORIGIN
Query Match 83.3%; Score 15; DB 10; Length 102;
Best Local Similarity 66.7%; Pred. No. 3.8e+02;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 2 UAAUUAUGGCCUGC 16
:|:|:|:|:|:|
Db 42 TAATTATGGCCCTGC 28

Search completed: November 30, 2005, 00:44:45
Job time : 1867.5 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 17:06:31 ; Search time 136.5 Seconds
(without alignments)
19.597 Million cell updates/sec

Title: US-10-018-716B-2

Perfect score:

Sequence: 1 auaauuagggccugcuc 18

Scoring table: OLIGO NUC

scoring curve: CRUC_NOC
Gapop 60.0 , Gapext 60.0

Searched: 3205263 seqs. 74304013 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6410526

Minimum DB seq length: 0

Minimum DB seq length: 20000000000
Maximum DB seq length: 20000000000

post-processing: Listing first 45 summaries

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Database : Published Applications NA_News.*
1: /cgn2_6/pdata/2/pubpna/us10_NEW_PUB.seq.*
2: /cgn2_6/pdata/2/pubpna/us06_NEW_PUB.seq.*
3: /cgn2_6/pdata/2/pubpna/us07_NEW_PUB.seq.*
4: /cgn2_6/pdata/2/pubpna/us08_NEW_PUB.seq.*
5: /cgn2_6/pdata/2/pubpna/us09_NEW_PUB.seq.*
6: /cgn2_6/pdata/2/pubpna/PCR_NEW_PUB.seq.*
7: /cgn2_6/pdata/2/pubpna/us11_NEW_PUB.seq.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14	77.8	1149	9	US-11-082-389-213
2	12	66.7	19	8	US-11-101-244-173294
C	12	66.7	19	8	US-11-101-244-173294
	12	66.7	19	8	US-11-101-244-173294
	12	66.7	19	8	US-11-101-244-173294
4	12	66.7	19	8	US-11-101-244-173294
5	12	66.7	19	8	US-11-101-244-173294
6	12	66.7	19	8	US-11-101-244-173294
7	12	66.7	19	8	US-11-101-244-173294
8	12	66.7	19	8	US-11-101-244-173294
9	12	66.7	19	8	US-11-101-244-173294
10	12	66.7	19	8	US-11-101-244-173294
11	12	66.7	19	8	US-11-101-244-173294
12	12	66.7	19	9	US-11-083-784-173294
13	12	66.7	19	9	US-11-083-784-173294
14	12	66.7	19	9	US-11-083-784-173294
15	12	66.7	19	9	US-11-083-784-173294
16	12	66.7	19	9	US-11-083-784-173294
17	12	66.7	19	9	US-11-083-784-173294
18	12	66.7	19	9	US-11-083-784-173294
19	12	66.7	19	9	US-11-083-784-173294
20	12	66.7	19	9	US-11-083-784-173294
21	12	66.7	19	9	US-11-083-784-173294
22	12	66.7	844	9	US-11-082-389-441
23	12	66.7	1095	9	US-11-082-389-439

ALIGNMENTS

RESULT 1

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US-11-082-389-213
; Sequence 213, Application US/11082389
; Publication No. US20050244935A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Habeshauer, Gregor
; TITLE OF INVENTION: CORNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
; TITLE OF INVENTION: TRANSPORT
; FILE REFERENCE: BGI-131CPCN
; CURRENT APPLICATION NUMBER: US/11/082,389
; CURRENT FILING DATE: 2005-03-16
; PRIOR APPLICATION NUMBER: US 05/603024
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 60/143262
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: US 60/151281
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19930487.4
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19930489.0
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931549.3
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931550.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932134.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; Remaining prior Application data removed - See File Wrapper or PALM.
; SEQ ID NO 213
; LENGTH: 1149
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (101)..(1126)
; OTHER INFORMATION: RXN00523

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US-11-082-389-213

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Query Match      77.8%;   Score 14; DB 9; Length 1149;
Best Local Similarity 64.3%;   Pred. No. 2.3;
Matches 9; Conservative 5; Mismatches 0; Indels

Qy      5 UUAUGGCCCGCUC 18
       :|:|:|:|:|:|
Db      229 TTATGGCCCTGTC 242

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Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels

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Query Match      66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 66.7%; Pred. No. 34;
Matches 8; Conservative 4; Mismatches 0; Gaps 0;

Qy      2 UAAUUUAGGCC 13
Db      19 TAATTATGGCC 8

```

```

Query Match      66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      7 AUGGCCCGCUC 18
        |||||
Db      3 AUGGCCCGCUC 14

```

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RESULT 5
US-11-101-244-1044082
; Sequence 1044082, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 1349US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1044082
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1044082

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Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AUGGCCUGCUC 18
| | | | | | | | | |
Db 3 AUGGCCUGCUC 14

RESULT 6
US-11-101-244-1044118
; Sequence 1044118, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1044118
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1044118

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AUGGCCUGCUC 18
| | | | | | | | | |
Db 5 AUGGCCUGCUC 16

RESULT 7
US-11-101-244-1152178
; Sequence 1152178, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1152178
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1152178

Query Match 66.7%; Score 12; DB 8; Length 19;

Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AUGGCCUGCUC 18
| | | | | | | | | |
Db 5 AUGGCCUGCUC 16

RESULT 8
US-11-101-244-1152276
; Sequence 1152276, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1152276
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1152276

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AUGGCCUGCUC 18
| | | | | | | | | |
Db 5 AUGGCCUGCUC 16

RESULT 9
US-11-101-244-1311535
; Sequence 1311535, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1311535
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1311535

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AUAUUUAUGGCC 12
|:|||||:|:
Db 3 AUAUUUAUGGCC 14

RESULT 10
US-11-101-244-1430673/c
; Sequence 1430673, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1430673
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1430673

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 7 AUGGCCCGUCU 18
|:|||||:|:
Db 12 ATGGCCCTGCTC 1

RESULT 11
US-11-101-244-1430674/c
; Sequence 1430674, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1430674
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1430674

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 7 AUGGCCCGUCU 18
|:|||||:|:
Db 15 ATGGCCCTGCTC 4

RESULT 12
US-11-083-784-173294
; Sequence 173294, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 173294
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-173294

Query Match 66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 UAUGGCCCGUCU 17
|:|||||:|:
Db 3 UAUGGCCCGUCU 14

RESULT 13
US-11-083-784-339765/c
; Sequence 339765, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 339765
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-339765

Query Match 66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 66.7%; Pred. No. 34;
Matches 8; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 2 UAAUUAUGGCC 13
Db 19 TAAATTATGGCCC 8

RESULT 14

US-11-083-784-600029
; Sequence 600029, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 600029
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-600029

Query Match 66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AUGGCCCGCUC 18
Db 3 AUGGCCCGCUC 14

RESULT 15

US-11-083-784-1044082
; Sequence 1044082, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1044082
; LENGTH: 19
; TYPE: RNA

; ORGANISM: Homo sapiens
US-11-083-784-1044082

Query Match 66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 AUGGCCCGCUC 18
Db 3 AUGGCCCGCUC 14

Search completed: November 29, 2005, 18:29:39
Job time : 136.5 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 17:06:31 ; Search time 72 Seconds
(without alignments)
444.390 Million cell updates/sec

Title: US-10-018-716B-2

Perfect score: 18
Sequence: 1 aaauuagggccgcuc 18

Scoring table: OLIGO NUC
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Searched: 1303057 seqs, 888780828 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA.*

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- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/PTUS COMB.seq.*
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- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
- 9: /cgn2_6/ptodata/1/ina/backfilese1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18	100.0	2179	2	US-08-487-886-1
2	18	100.0	2179	2	US-08-531-070A-1
3	18	100.0	2179	3	US-08-482-855-1
4	18	100.0	2179	3	US-08-474-986-1
5	18	100.0	2393	3	US-09-016-434-1209
6	15	83.3	481	3	US-09-270-767-1666
7	15	83.3	481	3	US-09-270-767-16948
8	15	83.3	52992	3	US-09-949-016-16105
9	14	77.8	900	3	US-09-489-039A-6986
10	14	77.8	1149	3	US-09-602-787A-379
11	14	77.8	1887	3	US-09-620-312D-42
12	14	77.8	3678	3	US-09-112-580-13
13	14	77.8	3762	3	US-09-489-039A-4926
14	14	77.8	55264	3	US-09-949-016-15014
15	14	77.8	70828	3	US-09-949-016-12122
16	14	77.8	94755	3	US-09-949-016-11839
17	14	77.8	101951	3	US-09-949-016-15648
18	14	77.8	137226	3	US-09-949-016-11763
19	14	77.8	139936	3	US-09-949-016-11782
20	14	77.8	139952	3	US-09-949-016-13280
21	14	77.8	147840	3	US-09-949-016-15236
22	13	72.2	25	3	US-09-396-196G-4948
23	13	72.2	339	3	US-09-489-039A-6054
24	13	72.2	459	3	US-09-248-796A-1604

25	13	72.2	601	3	US-09-949-016-48726	Sequence 48726, A
26	13	72.2	601	3	US-09-949-016-156620	Sequence 156620, A
27	13	72.2	601	3	US-09-949-016-160355	Sequence 160355, A
28	13	72.2	601	3	US-09-949-016-160356	Sequence 160356, A
29	13	72.2	668	3	US-09-533-559-5223	Sequence 5223, Ap
30	13	72.2	886	2	US-08-469-427A-1	Sequence 1, Appli
31	13	72.2	886	2	US-08-609-443B-1	Sequence 1, Appli
32	13	72.2	886	2	US-08-569-063C-1	Sequence 1, Appli
33	13	72.2	886	2	US-08-851-896-1	Sequence 1, Appli
34	13	72.2	1443	3	US-09-489-039A-5874	Sequence 5874, Ap
35	13	72.2	2554	3	US-09-701-868-4	Sequence 4, Appli
36	13	72.2	7883	3	US-09-949-016-11183	Sequence 13183, A
37	13	72.2	8773	3	US-09-949-016-14496	Sequence 14496, A
38	13	72.2	9792	3	US-09-635-872A-14	Sequence 14, Appl
39	13	72.2	9792	3	US-09-636-077A-14	Sequence 14, Appl
40	13	72.2	9792	3	US-09-636-060C-14	Sequence 14, Appl
41	13	72.2	9792	3	US-09-986-552-14	Sequence 14, Appl
42	13	72.2	9792	3	US-09-636-596C-14	Sequence 14, Appl
43	13	72.2	9792	3	US-10-023-894-21	Sequence 21, Appl
44	13	72.2	9792	3	US-10-306-686-14	Sequence 14, Appl
45	13	72.2	9792	3	US-09-895-072-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-08-487-886-1
; Sequence 1, Application US/08487886
; Patent No. 5744448
; GENERAL INFORMATION:
; APPLICANT: Kelton, Christie Ann
; APPLICANT: Schweickhardt, Rene Lynn
; APPLICANT: Cheng, Shirley Vui Yen
; APPLICANT: Nugent, No. 5744448een Patrice
; TITLE OF INVENTION: Human Follicle Stimulating
; TITLE OF INVENTION: Hormone Receptor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Stephan P. Williams,
; ADDRESSEE: Ares-Serono, Inc.
; STREET: Exchange Place, 37th floor
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
; COMPUTER: IBM PS/2, model 55 SX
; OPERATING SYSTEM: MS-DOS version 4.0
; SOFTWARE: VAX/VMS Massll via Kermit to IBM MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,886
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/670,085
; FILING DATE: 15-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Stephan P.
; REGISTRATION NUMBER: 28546
; REFERENCE/DOCKET NUMBER: US/252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 723-1300
; TELEFAX: (617) 723-8923
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2179
; TYPE: Nucleic acid
; STRANDEDNESS: Double
; TOPOLOGY: Linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:

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; ORGANISM: Homo sapiens
; TISSUE TYPE: Testis
; IMMEDIATE SOURCE:
; LIBRARY: lgt11 cDNA library, Clontech #HL1010b
; CLONE: PHFSHR11-11, PHFSHR15-6
; FEATURE:
; NAME/KEY: protein coding region
; LOCATION: 75 to 2159
US-08-487-886-1
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Query Match      100.0%; Score 18; DB 2; Length 2179;
Best Local Similarity 66.7%; Pred. No. 0.21;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
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```
OY 1 AUAUUUAGGCCUGCUC 18
   |:|:|:|:|:|:|:|:|:|:|
Db 69 ATAATTATGGCCCTGCTC 86
```

```
RESULT 2
US-08-531-070A-1
; Sequence 1, Application US/08531070A
; Patent No. 5851768
; GENERAL INFORMATION:
; APPLICANT: de la Chapelle, Albert
; APPLICANT: Aittomaki, Kristiina
; APPLICANT: Huhtaniemi, Ilpo
; TITLE OF INVENTION: Method For Diagnosis Of Ovarian Dysgenesis
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/531,070A
; FILING DATE: 20-SEP-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Gass, David A.
; REGISTRATION NUMBER: 38,153
; REFERENCE/DOCKET NUMBER: 28113/32879
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2179 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-531-070A-1
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Query Match      100.0%; Score 18; DB 2; Length 2179;
Best Local Similarity 66.7%; Pred. No. 0.21;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
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```
OY 1 AUAUUUAGGCCUGCUC 18
   |:|:|:|:|:|:|:|:|:|:|
Db 69 ATAATTATGGCCCTGCTC 86
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RESULT 3
US-08-482-855-1
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; Sequence 1, Application US/08482855
; Patent No. 6121016
; GENERAL INFORMATION:
; APPLICANT: Kelton, Christie Ann
; APPLICANT: Schweickhardt, Rene Lynn
; APPLICANT: Cheng, Shirley Vui Yen
; APPLICANT: Nugent, No. 6121016een Patrice
; TITLE OF INVENTION: Human Follicle Stimulating
; TITLE OF INVENTION: Hormone Receptor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Stephan P. Williams,
; ADDRESSEE: Ates-Serono, Inc.
; STREET: Exchange Place, 37th floor
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
; COMPUTER: IBM PS/2, model 55 SX
; OPERATING SYSTEM: MS-DOS version 4.0
; SOFTWARE: VAX/VMS Mas811 via Kermit to IBM MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/482,855
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/670,085
; FILING DATE: 15-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Stephan P.
; REGISTRATION NUMBER: 28546
; REFERENCE/DOCKET NUMBER: US/252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 723-1300
; TELEFAX: (617) 723-8923
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2179
; TYPE: Nucleic acid
; STRANDEDNESS: Double
; TOPOLOGY: Linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; TISSUE TYPE: Testis
; IMMEDIATE SOURCE:
; LIBRARY: lgt11 cDNA library, Clontech #HL1010b
; CLONE: PHFSHR11-11, PHFSHR15-6
; FEATURE:
; NAME/KEY: protein coding region
; LOCATION: 75 to 2159
US-08-482-855-1
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Query Match      100.0%; Score 18; DB 3; Length 2179;
Best Local Similarity 66.7%; Pred. No. 0.21;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
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```
OY 1 AUAUUUAGGCCUGCUC 18
   |:|:|:|:|:|:|:|:|:|:|
Db 69 ATAATTATGGCCCTGCTC 86
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RESULT 4
US-08-474-986-1
; Sequence 1, Application US/08474986
; Patent No. 6372711
; GENERAL INFORMATION:
; APPLICANT: Kelton, Christie Ann
; APPLICANT: Schweickhardt, Rene Lynn
; APPLICANT: Cheng, Shirley Vui Yen
; APPLICANT: Nugent, No. 6372711een Patrice
```


Query Match	100.0%	Score 18;	DB 3;	Length 2179;
Best Local Similarity	66.7%	Pred. NO.	0.21;	
Matches 12:	Conservative	6;	Mismatches	0;
	Indels	0;	Gaps	0;

RESULT 5
US-09-016-434-1209
: Sequence 1209. Application US/09016434

ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA

Query Match 100.0%; Score 18; DB 3; Length 2393;
Best Local Similarity 66.7%; Pred. No. 0.21;
Matches 12; Conservative 6; Mismatches 0; Indels

RESULT 6
US-09-270-767-1666
: Sequence 1666, Application US/09270767

Query Match 83.3%; Score 15; DB 3; Length 481;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 10: Conservative 5; Mismatches 0; Indels

RESULT 7
US-09-270-767-16948
; Sequence 16948, Application US/09270767
; Patent No. 6703491

```
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7328-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16948
; LENGTH: 481
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-16948

Query Match      83.3%; Score 15; DB 3; Length 481;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      4 AUUAUGGCCUGCUC 18
       |:|:|:|:|:|:|:|:|
Db      185 ATTATGGCCCTGCTC 199

RESULT 8
US-09-949-016-16105/c
; Sequence 16105, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16105
; LENGTH: 52992
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16105

Query Match      83.3%; Score 15; DB 3; Length 52992;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      1 AUAAUUAUGGCCUG 15
       |:|:|:|:|:|:|:|
Db      1241 ATAATTATGGCCCTG 1227

RESULT 9
US-09-489-039A-6996
; Sequence 6996, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 6996
; LENGTH: 900
```

```
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-6996

Query Match      77.8%; Score 14; DB 3; Length 900;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY      4 AUUAUGGCCUGCU 17
       |:|:|:|:|:|:|:|
Db      124 ATTATGGCCCTGCT 137

RESULT 10
US-09-602-787A-379
; Sequence 379, Application US/09602787A
; Patent No. 6696561
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Mark
; APPLICANT: Krüger, Burkhard
; APPLICANT: Schöder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Habershauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
; TITLE OF INVENTION: TRANSPORT
; FILE REFERENCE: BGI-125CP
; CURRENT APPLICATION NUMBER: US/09/602,787A
; CURRENT FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: USSN 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: DE 19931454.3
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931478.0
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931563.9
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932122.1
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932124.8
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932125.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932128.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932180.9
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932182.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932190.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932191.4
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932209.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932212.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932227.9
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932228.7
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932229.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932230.9
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932927.3
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933005.0
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933006.9
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19940764.9
; PRIOR FILING DATE: 1999-08-27
```

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; PRIOR APPLICATION NUMBER: DE 19940765.7
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940766.5
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940830.0
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940831.9
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940832.7
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940833.5
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19941378.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941395.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19942077.7
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: DE 19942078.5
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: DE 19942079.3
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: DE 19942088.2
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 678
; SEQ ID NO 379
; LENGTH: 1149
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (101)..(1126)
; OTHER INFORMATION: RXN00523
US-09-602-787A-379
```

```
Query Match 77.8%; Score 14; DB 3; Length 1149;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 5 UUAUGGCCUGCUC 18
:|:||||:|
Db 229 TTATGGCCCTGCTC 242
```

```
RESULT 11
US-09-620-312D-42/c
; Sequence 42, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Zhou, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radjoe T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
```

```
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_fl_genes Version 1.0
; SEQ ID NO 42
; LENGTH: 1887
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (55)..(1563)
US-09-620-312D-42
```

```
Query Match 77.8%; Score 14; DB 3; Length 1887;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
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```
QY 4 AUUAUGGCCUGCU 17
|:|:||||:|
Db 896 ATTATGGCCCTGCT 883
```

```
RESULT 12
US-09-112-580-13
; Sequence 13, Application US/09112580
; Patent No. 6610539
; GENERAL INFORMATION:
; APPLICANT: WRIGHT, Jim A.
; APPLICANT: YOUNG, Aiping
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE SEQUENCES AS INHIBITORS OF
; TITLE OF INVENTION: MICROORGANISMS
; FILE REFERENCE: 032396-016
; CURRENT APPLICATION NUMBER: US/09/112,580
; CURRENT FILING DATE: 1998-07-09
; EARLIER APPLICATION NUMBER: US 60/052,160
; EARLIER FILING DATE: 1997-07-10
; NUMBER OF SEQ ID NOS: 265
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 3678
; TYPE: DNA
; ORGANISM: Equine herpesvirus 4
US-09-112-580-13
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Query Match 77.8%; Score 14; DB 3; Length 3678;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AUAUAUUGGCCCU 14
|:|:||||:|
Db 2479 ATAAATTATGGCCCT 2492
```

```
RESULT 13
US-09-489-039A-4926/c
; Sequence 4926, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 4926
; LENGTH: 3762
; TYPE: DNA
```

; ORGANISM: Klebsiella pneumoniae
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1044),(1659)
; OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
US-09-489-039A-4926

Query Match 77.8%; Score 14; DB 3; Length 3762;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 5 UUAUAGGCCCGCUC 18
Db 3722 TTATGGCCCTGCTC 3709
:::|||||:|

RESULT 14
US-09-949-016-15014
; Sequence 15014, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15014
; LENGTH: 55264
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15014

Query Match 77.8%; Score 14; DB 3; Length 55264;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 2 UUAUAGGCCCGCUC 15
Db 41065 TAATTATGGCCCTG 41078
:|||||:

RESULT 15
US-09-949-016-12122/c
; Sequence 12122, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12122
; LENGTH: 70828
; TYPE: DNA
; ORGANISM: Human

; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(70828)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12122
Query Match 77.8%; Score 14; DB 3; Length 70828;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 2 UUAUAGGCCCGCUC 15
Db 35413 TAATTATGGCCCTG 35400
:|||||:

Search completed: November 29, 2005, 18:25:00
Job time : 73 secs

Result No.	Score	Query			DB	ID	Description
		Match	Length	Count			
1	18	100.0	441	4	US-09-925-065A-192589	Sequence 192589,	
2	18	100.0	441	4	US-09-925-065A-192590	Sequence 192590,	
3	18	100.0	1922	8	US-10-349-528-4	Sequence 4, Appli	
4	18	100.0	2019	7	US-10-382-248-9	Sequence 9, Appli	
5	18	100.0	2393	5	US-10-325-567A-121	Sequence 121, App	
6	18	100.0	2393	5	US-10-207-655-64	Sequence 64, Appl	
7	18	100.0	2393	6	US-10-305-120-1209	Sequence 1209, Ap	
8	16	88.9	201	8	US-10-719-993-38475	Sequence 38475, A	
9	16	88.9	612	4	US-09-925-065A-391076	Sequence 391076,	
10	16	88.9	261638	8	US-10-719-993-6882	Sequence 6882, Ap	
11	15	83.3	461	4	US-09-925-065A-328046	Sequence 328046,	
C 12	15	83.3	507	6	US-10-172-118-2085	Sequence 2085, Ap	
C 13	15	83.3	507	6	US-10-342-887-2085	Sequence 2085, Ap	
C 14	15	83.3	533	4	US-09-925-065A-520324	Sequence 520324,	
C 15	15	83.3	544	4	US-09-925-065A-539398	Sequence 539398,	
16	15	83.3	612	5	US-10-007-280A-106	Sequence 106, App	
17	15	83.3	628	5	US-10-007-280A-107	Sequence 107, App	
C 18	15	83.3	842	5	US-10-027-632-160723	Sequence 160723,	
C 19	15	83.3	842	5	US-10-027-632-160724	Sequence 160724,	
C 20	15	83.3	842	6	US-10-027-632-160723	Sequence 160723,	
C 21	15	83.3	842	6	US-10-027-632-160724	Sequence 160724,	
22	15	83.3	1634	7	US-10-424-599-84619	Sequence 84619, A	
C 23	15	83.3	2021	8	US-10-739-930-4619	Sequence 4619, Ap	


```

; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-207-655-64

Query Match      100.0%; Score 18; DB 5; Length 2393;
Best Local Similarity 66.7%; Pred. No. 0.48;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAUAUUGGCCCGUC 18
   |:|:|:|:|:|:|:|
Db 61 ATAATTATGGCCCTGCTC 78

RESULT 7
US-10-305-720-1209
; Sequence 1209, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
; SOFTWARE: PERL Program
; SEQ ID NO 1209
; LENGTH: 2393
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 g182770
; US-10-305-720-1209

Query Match      100.0%; Score 18; DB 6; Length 2393;
Best Local Similarity 66.7%; Pred. No. 0.48;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAUAUUGGCCCGUC 18
   |:|:|:|:|:|:|:|
Db 61 ATAATTATGGCCCTGCTC 78

RESULT 8
US-10-719-993-38475
; Sequence 38475, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 5342
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38475
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-38475

Query Match      88.9%; Score 16; DB 8; Length 201;
Best Local Similarity 68.8%; Pred. No. 7.7;
Matches 11; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAUAUUGGCCCGUC 16
   |:|:|:|:|:|:|:|
Db 113 ATAATTATGGCCCTGCTC 128

```

; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 328046
; LENGTH: 461
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-328046

Query Match 83.3%; Score 15; DB 4; Length 461;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AAUUAUGGCCCGCU 17
Db 11 AATTATGCCCTGCT 25

RESULT 12
US-10-172-118-2085/c
; Sequence 2085, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 2085
; LENGTH: 507
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: Contig23454
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-2085

Query Match 83.3%; Score 15; DB 6; Length 507;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AAUUAUGGCCCGCU 17
Db 177 AATTATGCCCTGCT 163

RESULT 13
US-10-342-887-2085/c
; Sequence 2085, Application US/10342887
; Publication No. US20040058340A1

; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna
; APPLICANT: Van de Vijver, Marc J.
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-188-999
; CURRENT APPLICATION NUMBER: US/10/342,887
; CURRENT FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/298,918
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/380,710
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: 10/172,118
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 2085
; LENGTH: 507
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-342-887-2085

Query Match 83.3%; Score 15; DB 7; Length 507;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AAUUAUGGCCCGCU 17
Db 177 AATTATGCCCTGCT 163

RESULT 14
US-09-925-065A-520324/c
; Sequence 520324, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 520324
; LENGTH: 533
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-520324

Query Match 83.3%; Score 15; DB 4; Length 533;
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Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 3 AAUUAUGGCCCGCU 17
Db 368 AATTATGCCCTGCT 354

RESULT 15
US-09-925-065A-539398/c
; Sequence 539398, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
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US-09-925-065A-539398

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Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAUUAUGGCCUUCU 17
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Search completed: November 29, 2005, 20:39:07
Job time : 404.5 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 18:25:08 ; Search time 894.5 Seconds
(without alignments)
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Title: US-10-018-716B-2

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Scoring table: OLIGO_NUC
Gapop_60.0 , Gapext 60.0

Searched: 5883141 seqs, 28421725653 residues

Word size : 0

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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- 15: gb_pl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	18	100.0	856	8 HSFSTHR	X68044 H.sapiens m
2	18	100.0	1724	8 S73199	S73199 follicle-st
3	18	100.0	1734	8 HSFSHX1	Z34260 H.sapiens D
4	18	100.0	2179	6 AR003719	AR003719 Sequence
5	18	100.0	2179	6 AR067576	AR067576 Sequence
6	18	100.0	2179	6 AR207283	AR207283 Sequence
7	18	100.0	2179	8 S59900	S59900 follicle st
8	18	100.0	2186	8 HUMFSHRE	M95489 H.sapiens f
9	18	100.0	2222	6 A76125	A76125 Sequence 1
10	18	100.0	2374	6 CQ715054	CQ715054 Sequence
11	18	100.0	2393	6 AR270646	AR270646 Sequence
12	18	100.0	2393	6 AX548836	AX548836 Sequence
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14	18	100.0	121688	8 AC092533	AC092533 Homo sapi
15	18	100.0	158709	14 AC083827	AC083827 Homo sapi
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17	16	88.9	1041	5 AY625217	AY625217 Priotelus
18	16	88.9	95681	8 AL157890	AL157890 Human DNA

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22	16	88.9	127015	14	AC151504	AC151504 Dasytus n
23	16	88.9	160179	14	AC092930	AC092930 Homo sapi
24	16	88.9	168380	8	AC063933	AC063933 Homo sapi
25	16	88.9	169314	14	AC148413	AC148413 Callithri
26	16	88.9	169996	14	AC053521	AC053521 Homo sapi
27	16	88.9	171267	14	AC154087	AC154087 Alligator
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29	16	88.9	185798	14	AC158248	AC158248 Callithri
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ALIGNMENTS

RESULT 1

HSFSTHR H.sapiens mRNA for follicle-stimulating hormone receptor. 856 bp mRNA linear PRI 07-FEB-1993
LOCUS X68044
DEFINITION X68044.1 GI:31473
VERSION follicle stimulating hormone receptor.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 856)
AUTHORS Gromoll, J., Gudermann, T. and Nieschlag, E.
TITLE Molecular cloning of a truncated isoform of the human follicle stimulating hormone receptor
JOURNAL Biochem. Biophys. Res. Commun. 188 (3), 1077-1083 (1992)
PUBMED 1359889
REFERENCE 2
AUTHORS Gromoll, J.
TITLE Direct Submission
JOURNAL Submitted (11-AUG-1992) J. Gromoll, Institut f Reproduktionsmedizin, Steinfurter Strasse 107, 4400 Muenster, FRG

FEATURES

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CDS

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ORIGIN
NEVV"

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Db 11 ATAATTATGGCCCTGCTC 28

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LOCUS      S73199      1724 bp      DNA      linear      PRI 28-FEB-1995
DEFINITION follicle-stimulating hormone receptor {5' region} [human, Genomic,
ACCESSION  S73199
VERSION     S73199.1 GI:685036
KEYWORDS   Homo sapiens (human)
SOURCE     Homo sapiens
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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Hominidae; Homo.
REFERENCE  1 (bases 1 to 1724)
AUTHORS   Gromoll,J., Dankbar,B. and Gudermann,T.
TITLE     Characterization of the 5' flanking region of the human
          follicle-stimulating hormone receptor gene
JOURNAL   Mol. Cell. Endocrinol. 102 (1-2), 93-102 (1994)
PUBMED   7926278
REMARK    GenBank staff at the National Library of Medicine created this
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Db 1481 ATAATTATGGCCCTGCTC 1498

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LOCUS      HSF5HX1      1734 bp      DNA      linear      PRI 24-JUL-1995
DEFINITION H.sapiens DNA for follicle stimulating hormone (FSH) receptor.
ACCESSION  Z34260
VERSION     Z34260.1 GI:1052701
KEYWORDS   follicle stimulating hormone receptor; FSH-receptor.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE  1 (bases 1 to 1734)

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AUTHORS   Gromoll,J.
JOURNAL   Thesis (1994) Institute of Reproductive Medicine, University of
          Muenster
REFERENCE  2 (bases 1 to 1734)
AUTHORS   Gromoll,J.
TITLE     Characterization of the 5'-flanking region of the human follicle
          stimulating hormone receptor gene
JOURNAL   Unpublished
REFERENCE  3 (bases 1 to 1734)
AUTHORS   Gromoll,J.
TITLE     Direct Submission
JOURNAL   Submitted (01-JUN-1994) Gromoll J., University of Muenster
          Institute of Reproductive Medicine Steinfurter Str. 107 Muenster
          Germany 48149
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Qy 1 AUAUUAUAGGCCUGCUC 18
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Db 1481 ATAATTATGGCCCTGCTC 1498

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LOCUS      AR003719      2179 bp      DNA      linear      PAT 04-DEC-1998
DEFINITION Sequence 1 from patent US 5744448.
ACCESSION  AR003719
VERSION     AR003719.1 GI:3964978
KEYWORDS   Unknown.
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 2179)
AUTHORS   Kelton,C.Ann., Cheng,S.Vui.Yen., Nugent,N.Patrice. and
          Schweickhardt,R.Lynn.
TITLE     Human follicle stimulating hormone receptor
JOURNAL   Patent: US 5744448-A 1 28-APR-1998;
          Location/Qualifiers
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Query Match      100.0%; Score 18; DB 6; Length 2179;
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Qy 1 AUAUUAUAGGCCUGCUC 18
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Db 69 ATAATTATGGCCCTGCTC 86

RESULT 5
LOCUS      AR067576      2179 bp      DNA      linear      PAT 29-SEP-1999
DEFINITION Sequence 1 from patent US 5851768.
ACCESSION  AR067576

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<p>VERSION AR067576.1 GI:5998798</p> <p>KEYWORDS Unknown.</p> <p>SOURCE Unknown.</p> <p>ORGANISM Unclassified.</p> <p>REFERENCE 1 (bases 1 to 2179)</p> <p>AUTHORS de la Chapelle,A., Huhtaniemi,I. and Aittomaki,K.</p> <p>TITLE Method for diagnosis of ovarian dysgenesis</p> <p>JOURNAL Patent: US 5851768-A 1 22-DEC-1998;</p> <p>FEATURES Location/Qualifiers</p> <p>source 1..2179</p> <p>/organism="unknown"</p> <p>/mol_type="unassigned DNA"</p> <p>ORIGIN</p> <p>Query Match 100.0%; Score 18; DB 6; Length 2179;</p> <p>Best Local Similarity 66.7%; Pred. No. 5.6;</p> <p>Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;</p> <p>Qy 1 AUAUUAUGCCCGCUC 18</p> <p>ATAATTATGCGCTGCTC 86</p> <p>Db</p> <p>RESULT 6</p> <p>AR207283</p> <p>LOCUS Sequence 1 from patent US 6372711.</p> <p>DEFINITION AR207283</p> <p>ACCESSION AR207283</p> <p>VERSION AR207283.1 GI:21506147</p> <p>KEYWORDS Unknown.</p> <p>SOURCE Unknown.</p> <p>ORGANISM Unclassified.</p> <p>REFERENCE 1 (bases 1 to 2179)</p> <p>AUTHORS Kelton,C.Ann., Cheng,S.Vui.Yen., Nugent,N.Patrice. and Schweickhardt,R.Lynn.</p> <p>TITLE Methods for assaying human FSH using human FSH receptor</p> <p>JOURNAL Patent: US 6372711-A 1 16-APR-2002;</p> <p>FEATURES Location/Qualifiers</p> <p>source 1..2179</p> <p>/organism="unknown"</p> <p>/mol_type="unassigned DNA"</p> <p>ORIGIN</p> <p>Query Match 100.0%; Score 18; DB 6; Length 2179;</p> <p>Best Local Similarity 66.7%; Pred. No. 5.6;</p> <p>Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;</p> <p>Qy 1 AUAUUAUGCCCGCUC 18</p> <p>ATAATTATGCGCTGCTC 86</p> <p>Db</p> <p>RESULT 7</p> <p>S59900</p> <p>LOCUS Sequence 1 from patent US 6372711.</p> <p>DEFINITION S59900</p> <p>ACCESSION S59900.1 GI:300072</p> <p>VERSION S59900.1</p> <p>KEYWORDS Homo sapiens (human)</p> <p>SOURCE Homo sapiens</p> <p>ORGANISM Homo sapiens</p> <p>REFERENCE 1 (bases 1 to 2179)</p> <p>AUTHORS Kelton,C.A., Cheng,S.V., Nugent,N.P., Schweickhardt,R.L., Rosenthal,J.L., Overton,S.A., Wands,G.D., Kuzeja,J.B., Luchette,C.A. and Chappel,S.C.</p> <p>TITLE The cloning of the human follicle stimulating hormone receptor and its expression in COS-7. CHO. and Y-1 cells</p>	<p>JOURNAL Mol. Cell. Endocrinol. 89 (1-2), 141-151 (1992)</p> <p>PUBMED 1301382</p> <p>REMARK GenBank staff at the National Library of Medicine created this entry [NCBI gibbsq 130880] from the original journal article.</p> <p>FEATURES Location/Qualifiers</p> <p>source 1..2179</p> <p>/organism="Homo sapiens"</p> <p>/mol_type="mRNA"</p> <p>/db_xref="taxon:9606"</p> <p>gene 1..2179</p> <p>/gene="follicle stimulating hormone receptor, FSH receptor"</p> <p>CDS 75..2162</p> <p>/gene="follicle stimulating hormone receptor, FSH receptor"</p> <p>/note="FSH receptor"</p> <p>/codon_start=1</p> <p>/product="follicle stimulating hormone receptor"</p> <p>/protein_id="AAB36480.1"</p> <p>/db_xref="GI:300073"</p> <p>/translation="MALLLVSLAFLSLGSGCHHRIHCNSRVFLQESKVTIPDLP PRNAIELRVLTQKGFSGDLEKIEISQNDLVLEIADVFNPVKLHEIRI EKANNLYINPEAFQNLQYLLIINTKQKIPDVHKHSLQKLVLDIDNINII ENSPVGLSFVILMLNKGIOEIHNCAGNTQDLDELNSDNNLEELPNDVPHGAS GPVLDISRTRHSLPSYGLNKKLRARSTYNLKLPTLEKLVALMEASLTYPSCCC AFANRRRISLHPICNKSILRQEVDMYTRQGRSLAEDNESSYRGDFMTYTFQY YDLCNEVDVVTCPKPAFNPCEIMGYNLRILVIFISILAITGNIIVLIVLTQY KLTVPRFLMCLNAPADICIGYLLLIASVDIHTKSOYHVAIDMQTGAGCGDAAGFTV FASLSVVTLTATLERWHTITHAMQDCKVQLRHAASVMVMGWIAPFAAALPFIQI SSYMKVSICLPMDIDSPLSQLYVMSLLVNLVAFVLCGCVIHYLTVRNPINVSSS DTRIARKWMLIFITFLCMAFISFAISASLKVPLITVSXAKILLVLPHFINSANPFF LYAIFTKMRFRDFFILLSKGCEYEMQAQIYRTSTSTVTHNTPRNGHSSAPRVTVGS TYILVPLSHLAQN"</p> <p>ORIGIN</p> <p>Query Match 100.0%; Score 18; DB 8; Length 2179;</p> <p>Best Local Similarity 66.7%; Pred. No. 5.6;</p> <p>Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;</p> <p>Qy 1 AUAUUAUGCCCGCUC 18</p> <p>ATAATTATGCGCTGCTC 86</p> <p>Db</p> <p>RESULT 8</p> <p>HUMFSHREC</p> <p>LOCUS H.sapiens follicle stimulating hormone receptor mRNA, complete cds.</p> <p>DEFINITION H.sapiens follicle stimulating hormone receptor mRNA, complete cds.</p> <p>ACCESSION M95489.1</p> <p>VERSION M95489.1</p> <p>KEYWORDS G-protein coupled receptor; follicle stimulating hormone (FSH) receptor.</p> <p>SOURCE Homo sapiens (human)</p> <p>ORGANISM Homo sapiens</p> <p>REFERENCE 1 (bases 1 to 2186)</p> <p>AUTHORS Tilly,L.T., Ahara,T., Nishimori,K., Jai,X., Billig,H., Kowalski,K.I., Perlas,E.A. and Heueh,A.J.W.</p> <p>TITLE Expression of recombinant human follicle-stimulating hormone receptor: Species-specific ligand binding, signal transduction, and identification of multiple ovarian messenger ribonucleic acid transcripts</p> <p>JOURNAL Endocrinology (1992) In press</p> <p>COMMENT Original source text: Homo sapiens male adult testis cDNA to mRNA.</p> <p>FEATURES Location/Qualifiers</p> <p>source 1..2186</p> <p>/organism="Homo sapiens"</p> <p>/mol_type="mRNA"</p> <p>/db_xref="taxon:9606"</p> <p>/map="Unassigned"</p> <p>/sex="male"</p>
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CDS										
ORIGIN										
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Best Local Similarity	66.7%; Pred. No. 5.6;									
Matches	12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;									
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ACCESSION	A76125									
VERSION	A76125.1 GI:6088261									
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REFERENCE	1 (bases 1 to 2222) Dijkema,R. and De,L.R. HUMAN GONADOTROPIN RECEPTOR (FSH RECEPTOR) Patent: WO 9320199-A 1 14-OCT-1993; AKZO NV (NL); DIJKEWA REIN (NL) Location/Qualifiers 1..2222 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606" 85..2172 /codon_start=1 /evidence=experimental /product="FSH receptor" /protein_id="CAB58589.1" /db_xref="GI:6088262" /translation="MALLLVSLAFSLGSGCHRRICHCSRNVFLCQESKVTPEISDL PRNAELRVLTQKRVIOKGFSGFDLEKIEISQNDVLEIADVFSNLPKLHEIRI EKANLLYINPEAFONLNQVLLISNTGIKHPDVKHLSLQKVLDDIQONINHTI ERNPFVGLSFESVILWLNKNGIOETHNCAFNQTQDLELSDNNLLELPNDVPHGAS GPVLIDISRTIHSPLSGLENLKLKRASTYNLKKGPTLEKLVALMEASLTPSHCC AFANWRROISLHPICNKSILRQEVDMYQTRGQSSLAEDNESYSRGFDMTYTFD YDLCEVVDVTCSPKPAFNCEDIMGYNILRVLIWIFISILAITGNIIVLILVITTSQY KLTVPFLMCLNAPADLCIGTYLLIASVDIHTKSQYHNYAIDWQTGAGCDAAGFTV FASLSVYTLTAITLERWHTITHAMQDCKVQLRHAASVMWGMIFAPAAALFPIFGI SSYMKVSIKLPMDIDSPLSQLYVMSLLVNLVAFVVICGCVIHYIYLTVRNPNIVSSSS									
FEATURES	source									
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DEFINITION	Sequence 1209 from patent US 6500938.									
ACCESSION	AR270646									
VERSION	AR270646.1 GI:29701880									
KEYWORDS	Unknown.									
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ORGANISM	Unclassified.									
REFERENCE	1 (bases 1 to 2393) Au-Young,J. and Seilhamer,J.J. Composition for the detection of signaling pathway gene expression Patent: US 6500938-A 1209 31-DEC-2002; Incyte Genomics, Inc.; Palo Alto, CA; WOX; Location/Qualifiers 1..2393 /organism="unknown" /mol_type="genomic DNA"									
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ACCESSION	AR270646									
VERSION	AR270646.1 GI:29701880									
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SOURCE	Unknown.									
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REFERENCE	1 (bases 1 to 2393) Au-Young,J. and Seilhamer,J.J. Composition for the detection of signaling pathway gene expression Patent: US 6500938-A 1209 31-DEC-2002; Incyte Genomics, Inc.; Palo Alto, CA; WOX; Location/Qualifiers 1..2393 /organism="unknown" /mol_type="genomic DNA"									
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ACCESSION	AR270646									
VERSION	AR270646.1 GI:29701880									
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SOURCE	Unknown.									
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REFERENCE	1 (bases 1 to 2393) Au-Young,J. and Seilhamer,J.J. Composition for the detection of signaling pathway gene expression Patent: US 6500938-A 1209 31-DEC-2002; Incyte Genomics, Inc.; Palo Alto, CA; WOX; Location/Qualifiers 1..2393 /organism="unknown" /mol_type="genomic DNA"									
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Qy	1 AUAUUUAUGGCCUGCUC 18									
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VERSION	AR270646.1 GI:29701880									
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SOURCE	Unknown.									
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SOURCE	Unknown.									
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SOURCE	Unknown.									
ORGANISM	Unclassified.									
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SOURCE	Unknown.									
ORGANISM	Unclassified.									
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ACCESSION	AR270646									
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ORGANISM	Unclassified.									
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ORGANISM	Unclassified.									
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LOCUS AX548836 2393 bp DNA linear PAT 26-NOV-2002
DEFINITION Sequence 121 from Patent WO2061087.
ACCESSION AX548836
VERSION AX548836.1 GI:25813727
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Burner,G.C., Roush,C.L. and Brown,J.P.
TITLE Antigenic peptides, such as for G protein-coupled receptors
(GPCRs), antibodies thereto, and systems for identifying such
antigenic peptides
JOURNAL Patent: WO 02061087-A 121 08-AUG-2002;
Lifespan Biosciences, Inc. (US)
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RESULT 13
LOCUS HUMFSHRE 2393 bp mRNA linear PRI 12-JAN-2005
DEFINITION Human follicle stimulating hormone receptor mRNA, complete cds.
ACCESSION M65085
VERSION M65085.1 GI:182770
KEYWORDS follicle stimulating hormone (FSH) receptor.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 2393)
AUTHORS Minegishi,T., Nakamura,K., Takakura,Y., Ibuki,Y., Igarashi,M. and
Minegishi,T.
TITLE Cloning and sequencing of human FSH receptor cDNA
JOURNAL Biochem. Biophys. Res. Commun. 175 (3), 1125-1130 (1991)
PUBMED 1709010
COMMENT source text: Human, cDNA to mRNA.
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Db 61 ATAAATTATGGCCCTGCTC 78

RESULT 14
LOCUS AC092533/C 121688 bp DNA linear PRI 15-APR-2005
DEFINITION Homo sapiens BAC clone RP11-57110 from 2, complete sequence.
ACCESSION AC092533 AC027148
VERSION AC092533.1 GI:14718373
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 121688)
AUTHORS Haakenson,W. and Shah,N.
TITLE The sequence of Homo sapiens BAC clone RP11-57110
JOURNAL Unpublished (2001)
REFERENCE 2 (bases 1 to 121688)
AUTHORS Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (14-JUL-2001) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE 3 (bases 1 to 121688)
AUTHORS Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (25-JUL-2001) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE 4 (bases 1 to 121688)
AUTHORS Waterston,R.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-2002) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
REFERENCE 5 (bases 1 to 121688)
AUTHORS Wilson,R.K.
TITLE Direct Submission
JOURNAL Submitted (15-APR-2005) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
COMMENT On Jul 14, 2001 this sequence version replaced gi:7622375.
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu
Contact: submissions@watson.wustl.edu
----- Summary Statistics
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Center project name: H_NH0057110
Drafting Center: WIBR

NOTICE:

This sequence was finished as follows unless otherwise noted:
all regions were double stranded, sequenced with an alternate
chemistry, or covered by high quality data (i.e., phred quality >= 30);
an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by sequence
from more than one subclone; and the assembly was confirmed by
restriction digest.

MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. Wes Warren,
Department of Genetics, Washington University, St. Louis MO. For
additional information about the map position of this sequence, see
http://genome.wustl.edu

SOURCE INFORMATION:

The RPCI-11 human BAC library was made from the blood of one male
donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frengen, E.,
Tateno, M., Catanese, J.J. and de Jong, P.J. (1998) An improved
approach for construction of bacterial artificial chromosome
libraries. Genomics 51:1-8. The clone may be obtained either from
Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong
and coworkers at http://www.chori.org
VECTOR: pBAC3.6

NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the left is RP11-125F24, 2000 bp overlap.
Actual start of this clone is at base position 9748 of RP11-125F24;
actual end is at base position 121688 of RP11-57110.

The sequence of AC027148 has been incorporated into AC092533.

FEATURES
source

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complement(82833..83058)
/gene="FSHR"
complement(<82833..82984)
/gene="FSHR"
/note="Homo sapiens follicle stimulating hormone receptor
(FSHR), transcript variant 1, mRNA.; H_NH0057110.1
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/db_xref="GI:62630150"
/translation="MALLLVSLAFLSLGSGCHRHICHSNRVFLQESKVTETPSDL
PRNAIEL"

gene

mRNA

CDS

ORIGIN

Query Match 100.0%; Score 18; DB 8; Length 121688;
Best Local Similarity 66.7%; Pred. No. 5.6;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1 AUAUUUAUAGGCCUGUC 18

Db 82990 ATAATTATGGCCCTGCTC 82973

RESULT 15
AC083827/c

LOCUS AC083827 158709 bp DNA linear HTG 24-JAN-2002
DEFINITION Homo sapiens chromosome 2 clone RP11-345C21, WORKING DRAFT
SEQUENCE, 23 unordered pieces.
ACCESSION AC083827
VERSION AC083827.2 GI:15375221
KEYWORDS HTG; HTGS PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 158709)
AUTHORS Waterston, R.H.
TITLE The sequence of Homo sapiens clone
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 158709)
AUTHORS Waterston, R.H.
TITLE Direct Submission
JOURNAL Submitted (02-OCT-2000) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
COMMENT On Aug 30, 2001 this sequence version replaced gi.10445230.
----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc/index.shtml
Contact: submissions@wustl.edu
----- Project Information -----
Center project name: H_NH0345C21

----- Summary Statistics -----
Sequencing vector: M13; 100%
Sequencing vector: plasmid; 0%
Chemistry: Dye-terminator Big Dye; 92% of reads
Chemistry: Dye-terminator Big Dye; 92% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 142571 bases at least Q40
Consensus quality: 147681 bases at least Q30
Consensus quality: 150874 bases at least Q20
Insert size: 167000; agarose-fp
Insert size: 156781; sum-of-contigs
Quality coverage: 3.10 in Q20 bases; agarose-fp
Quality coverage: 3.36 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 23 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1192: contig of 1192 bp in length
* 1193: gap of unknown length
* 1293: contig of 1480 bp in length
* 2772: gap of unknown length
* 2873: contig of 1529 bp in length
* 4402: gap of unknown length
* 4502: contig of 2252 bp in length
* 6754: gap of unknown length
* 6854: contig of 1910 bp in length
* 8764: gap of unknown length
* 8864: contig of 2200 bp in length
* 11064: gap of unknown length
* 11164: contig of 2989 bp in length
* 14153: gap of unknown length
* 14253: contig of 3069 bp in length
* 17322: gap of unknown length
* 17422: contig of 2451 bp in length
* 19873: gap of unknown length
* 19973: contig of 2914 bp in length
* 22887: gap of unknown length

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misc_feature	/estimated_length=unknown	27090. .31373
gap	/note="assembly_name:Contig17"	31374. .31473
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gap	/note="assembly_name:Contig18"	36313. .36412
misc_feature	/estimated_length=unknown	36413. .41598
gap	/note="assembly_name:Contig19"	41599. .41698
misc_feature	/estimated_length=unknown	41699. .49543
gap	/note="assembly_name:Contig20"	49544. .49643
misc_feature	/estimated_length=unknown	49644. .56734
gap	/note="assembly_name:Contig21"	56735. .56834
misc_feature	/estimated_length=unknown	56835. .66438
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FEATURES

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77035. .88008
note="assembly_name:Contig24
clone_end:SP6
vector_side:left"
gap              88009. .88108
misc_feature      /estimated_length=unknown
88109. .101914
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gap              101915. .102014
misc_feature      /estimated_length=unknown
102015. .117937
note="assembly_name:Contig26
gap              117938. .118037
misc_feature      /estimated_length=unknown
118038. .133609
note="assembly_name:Contig27
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133710. .158709
note="assembly_name:Contig28

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ORIGIN

Query Match	100.0%;	Score 18;	DB 14;	Length 158709;
Best Local Similarity	66.7%;	Pred. No. 5.6;		
Matches 12:	Conservative	6;	Mismatches	0;
	Indels	0;		

1 AUAATUAUGGCCUGCUC 180

35257 ATAAATTATGGCCCTTGCTC 35240

Search completed: November 29, 2005, 23:42:25
Job time : 895.5 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 18:22:32 ; Search time 223.5 Seconds
(without alignments)
536.754 Million cell updates/sec

Title: US-10-018-716B-2

Perfect score: 18
Sequence: 1 aaauauggcccguc 18

Scoring table: OLIGO_NUC
Gapop_60.0 , Gapext 60.0

Searched: 4996997 seqs, 332346308 residues

Word size : 0 9993994

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : N_Geneseq_21.*
1: Geneseqn1980s:*
2: Geneseqn1990s:*
3: Geneseqn2000s:*
4: Geneseqn2001as:*
5: Geneseqn2001bs:*
6: Geneseqn2002as:*
7: Geneseqn2002bs:*
8: Geneseqn2003as:*
9: Geneseqn2003bs:*
10: Geneseqn2003cs:*
11: Geneseqn2003ds:*
12: Geneseqn2004as:*
13: Geneseqn2004bs:*
14: Geneseqn2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	18	4 AAC90409	Rac90409 Human FSH
2	18	100.0	18	4 AAC90408	Rac90408 Human FSH
3	18	100.0	1922	11 ADPQ3559	AdpQ3559 Human GPC
4	18	100.0	2019	10 ADC24202	Adc24202 Human NOV
5	18	100.0	2179	2 AAT63181	Aat63181 FSH recep
6	18	100.0	2180	2 AAQ29377	Aaq29377 FSHR DNA
7	18	100.0	2222	2 AAQ50013	Aaq50013 FSH recep
8	18	100.0	2393	8 ABZ42665	Abz42665 Human fol
9	18	100.0	2393	10 AD25503	Ad25503 Binding d
10	18	100.0	2393	10 ACAS6611	Acas6611 Human sig
11	18	100.0	2393	12 AD156407	Ad156407 Human pol
12	18	100.0	2393	12 AD029879	Ado29879 Human GPC
13	15	83.3	507	13 ADR26224	Adr26224 Breast ca
14	15	83.3	612	6 ABT03390	Abt03390 Ovary cel
15	15	83.3	628	6 ABT03391	Abt03391 Ovary cel
16	15	83.3	2021	13 ADT19293	Adt19293 Plant cDN
17	15	83.3	3659	4 ABL12007	Abli12007 Drosophil
18	15	83.3	8253	13 ADR84405	Adr84405 Aspergill
19	15	83.3	9140	4 ABL12006	Abli12006 Drosophil

C	20	15	83.3	76829	14	AEA61117	AEA61117 Human FlJ
	21	15	83.3	180227	13	ABD33268	ABd33268 Human can
	22	15	83.3	202251	11	ACN44504	ACn44504 Mouse gen
C	23	14	77.8	400	14	ABE67475	ABe67475 Rice geno
	24	14	77.8	574	11	ADT97777	Adt97777 Colon can
C	25	14	77.8	574	11	ADX44259	Adx44259 Human cDN
C	26	14	77.8	810	8	ACA36201	ACA36201 Prokaryot
	27	14	77.8	900	11	ABD01221	ABd01221 Kiebsiell
	28	14	77.8	975	13	ADT45042	Adt45042 Bacterial
	29	14	77.8	1059	5	AAH65707	AAh65707 C glutami
	30	14	77.8	1149	4	AAF67932	AAf67932 Corynebac
	31	14	77.8	1200	14	ADZ62987	Adz62987 Murine Hs
	32	14	77.8	1254	13	ADS52883	AdS52883 Bacterial
C	33	14	77.8	1506	13	ADS48503	AdS48503 Bacterial
C	34	14	77.8	1617	5	AAS93640	AAs93640 DNA encod
C	35	14	77.8	1887	4	AAI58166	AAi58166 Human pol
C	36	14	77.8	1887	5	ADO98372	AdO98372 DNA encod
C	37	14	77.8	1887	9	ADB48132	ADB48132 Novel hum
C	38	14	77.8	1887	13	ADS47940	AdS47940 Bacterial
C	39	14	77.8	1903	4	AAH17958	AAh17958 Human cDN
	40	14	77.8	2450	10	ADB68874	ADB68874 C. neofor
	41	14	77.8	2975	6	AAD29106	AAd29106 Human MDW
	42	14	77.8	3678	2	AAQ53996	AAq53996 Equine he
	43	14	77.8	3678	2	AAx38299	AAx38299 Equine he
C	44	14	77.8	3762	11	ACH99131	ACH99131 Klebsiell
C	45	14	77.8	4262	2	AAT38484	AAt38484 Rat petri

ALIGNMENTS

RESULT 1
AAC90409
ID AAC90409 standard; RNA; 18 BP.
XX
AC AAC90409;
XX
DT 19-MAR-2001 (first entry)
XX
DE Human FSH receptor specific antisense oligonucleotide #2.
XX
KW Human; cytostatic; follicle-stimulating hormone receptor; FSHR;
XX fertility; menstrual cycle; chemopreventive; chemotherapy; cancer; ss.
XX Homo sapiens.
XX
PN WO200073416-A1.
XX
PD 07-DEC-2000.
XX
PF 16-MAY-2000; 2000WO-US013488.
XX
PR 28-MAY-1999; 99US-0136489P.
PR 08-OCT-1999; 99US-0158612P.
(UYCI-) UNIV CINCINNATI.
Labarbera AR, Zhu C, Wang Y;
XX
XX WPI; 2001-091069/10.
PT New composition for regulating fertility, and for chemoprevention and
PT chemotherapy of cancer, comprises an antisense oligonucleotide that is
PT complementary to a nucleotide sequence of a follicle-stimulating hormone
PT receptor.
XX
XX Claim 13; Page 29; 89pp; English.
CC The present invention relates to a composition, which comprises at least
CC one antisense oligonucleotide that is complementary to follicle-
CC stimulating hormone receptor (FSHR) coding sequence. The present sequence
CC is one such oligonucleotide used in the composition. The composition of
CC the present invention can be used for regulating hormones of a host. The

CC	which was isolated by the method of the invention.
XX	
SQ	Sequence 1922 BP; 499 A; 504 C; 387 G; 532 T; 0 U; 0 Other;
	Query Match 100.0%; Score 18; DB 11; Length 1922;
	Best Local Similarity 66.7%; Pred. NO. 1.3;
	Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY	1 AUAUUUAGGCCUGGUC 18 : : : : : :
Dd	11 ATAATTATGGCCTGTCTC 28
RESULT 4	
ADC24202	
ID	ADC24202 standard; cDNA; 2019 BP.
XX	
AC	ADC24202;
XX	
DT	18-DEC-2003 (first entry)
XX	
DE	Human NOV3a encoding cDNA SEQ ID NO:9.
XX	
KW	human; NOVX; cardiant; antiarteriosclerotic; hypotensive; vasotropic; adrenoleukodystrophy; congenital adrenal obesity; transplanta-

Query Match	100.0%;	Score 18;	DB 11;	Length 1922;	CC antiinflammatory, neuroprotective, anabolic, nootropic and
Best Local Similarity	66.7%;	Pred. No. 1.3;			CC antiparkinsonian activities, and can be used in gene therapy. The NOVA
Matches 12:	Conservative	6;	Mismatches	0;	CC sequences can be used as a therapeutic in the manufacture of a medicament
			Indels	0;	CC

Qv	1 AUAATUAUGGCCUGCUC 18	CC	CC
		pathology associated with NOVX. The NOVX proteins and nucleic acids	associated with NOVX.

CC	encoding them are useful for diagnosing or treating pathologies, diseases
----	---

CC obesity, transplantation, adrenoleukodystrophy, congenital adrenal

CC hyperplasia, prostate cancer, diabetes, metabolic disorders, neoplasm, _	ADC24202
---	----------

ID	AD24202 standard; cDNA; 2019 BP.	CC	adenocarcinoma, fertility, haemophilia, graft versus host disease, AIDS,
ID	AD24202 standard; cDNA; 2019 BP.	CC	adenocarcinoma, fertility, haemophilia, graft versus host disease, AIDS,

AC	ADC24202;	CC disease, anorexia, neurodegenerative disorders (e.g. Alzheimer's disease,
----	-----------	--

DT 18-DEC-2003 (first entry)

DE Human NOV3a encoding cDNA SEQ ID NO:9.

KW	human; NOVX; cardiant; antiarteriosclerotic; hypotensive; vasotropic;
KW	dermatological; anorectic; immunosuppressive; cytostatic;
KW	antiinfectility; haemostatic; anti-HIV; antiasthmatic; antiinflammatory;
KW	neuroprotective; anabolic; nootropic; antiparkinsonian; gene therapy;
KW	cardiomyopathy; atherosclerosis; hypertension; congenital heart defect;
KW	pulmonary stenosis; scleroderma; obesity; metabolic disturbance; obesity;
KW	transplantation; adrenoleukodystrophy; congenital adrenal hyperplasia;
KW	prostate cancer; diabetes; metabolic disorder; neoplasm; adenocarcinoma;
KW	fertility; haemophilia; graft versus host disease; AIDS;
KW	bronchial asthma; Crohn's disease; multiple sclerosis;
KW	infectious disease; anorexia; neurodegenerative disorder;
KW	Alzheimer's disease; Parkinson's disease; immune disorder;
KW	haematopoietic disorder; dyslipidaemia; wasting disorder; gene; ss.

CC	and in forensic identification of a biological sample. The present
CC	sequence encodes human NOV3a from the present invention.
XX	
SQ	Sequence 2019 BP; 527 A; 514 C; 411 G; 567 T; 0 U; 0 Other;
Query Match	100.0%; Score 18; DB 10; Length 2019;
Best Local Similarity	66.7%; Pred. No. 1.3;
Matches	12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
OY	1 AUAUAUAGGCGCUGUC 18 :: :: :: :: :: :: ::
Db	55 ATAATTATGGCCCTGC TC 72

OS
OS
Homo sapiens.

Key	Location/Qualifiers
FF	ID AAT63181 standard; DNA; 2179 BP.

ET CDS
61. .1962
XX
XX

```

ET tag= a
ET product=
ET "NOV3a"

```

PN WO20031076584-A2.

18-SEP-2003
XX
XX

06-MAR-2003: 2003WO-US006951.
KW hypergonadotropic hypogonadism; diagnosis; ss.

06-MAR-2002: 2002US-0361974P.
OS Homo sapiens.
OS Homo sapiens.

pr 19-MAR-2002: 2002US-0365477P. XX

	Location/Qualifiers
PR	22-MAR-2002: 2002US-0366928P.

PR	06-AUG-2002; 2002US-0401661P.	FT exon	70. .227
...

PR 05-MAR-2003; 2003US-00401661. / *tag= c ET

PA	(CURA-) CURAGEN CORP.	FT	158 of fshr exon 1"
----	-----------------------	----	---------------------

Accession	Gene	Chromosome	Start (kb)	End (kb)	Strand	Feature	RefSeq
U01251	FT	1	100000	100000	+	FT	FT
U01252	FT	1	100000	100000	+	FT	FT
U01253	FT	1	100000	100000	+	FT	FT
U01254	FT	1	100000	100000	+	FT	FT
U01255	FT	1	100000	100000	+	FT	FT
U01256	FT	1	100000	100000	+	FT	FT
U01257	FT	1	100000	100000	+	FT	FT
U01258	FT	1	100000	100000	+	FT	FT
U01259	FT	1	100000	100000	+	FT	FT
U01260	FT	1	100000	100000	+	FT	FT
U01261	FT	1	100000	100000	+	FT	FT
U01262	FT	1	100000	100000	+	FT	FT
U01263	FT	1	100000	100000	+	FT	FT
U01264	FT	1	100000	100000	+	FT	FT
U01265	FT	1	100000	100000	+	FT	FT
U01266	FT	1	100000	100000	+	FT	FT
U01267	FT	1	100000	100000	+	FT	FT
U01268	FT	1	100000	100000	+	FT	FT
U01269	FT	1	100000	100000	+	FT	FT
U01270	FT	1	100000	100000	+	FT	FT
U01271	FT	1	100000	100000	+	FT	FT
U01272	FT	1	100000	100000	+	FT	FT
U01273	FT	1	100000	100000	+	FT	FT
U01274	FT	1	100000	100000	+	FT	FT
U01275	FT	1	100000	100000	+	FT	FT
U01276	FT	1	100000	100000	+	FT	FT
U01277	FT	1	100000	100000	+	FT	FT
U01278	FT	1	100000	100000	+	FT	FT
U01279	FT	1	100000	100000	+	FT	FT
U01280	FT	1	100000	100000	+	FT	FT
U01281	FT	1	100000	100000	+	FT	FT
U01282	FT	1	100000	100000	+	FT	FT
U01283	FT	1	100000	100000	+	FT	FT
U01284	FT	1	100000	100000	+	FT	FT
U01285	FT	1	100000	100000	+	FT	FT
U01286	FT	1	100000	100000	+	FT	FT
U01287	FT	1	100000	100000	+	FT	FT
U01288	FT	1	100000	100000	+	FT	FT
U01289	FT	1	100000	100000	+	FT	FT
U01290	FT	1	100000	100000	+	FT	FT
U01291	FT	1	100000	100000	+	FT	FT
U01292	FT	1	100000	100000	+	FT	FT
U01293	FT	1	100000	100000	+	FT	FT
U01294	FT	1	100000	100000	+	FT	FT
U01295	FT	1	100000	100000	+	FT	FT
U01296	FT	1	100000	100000	+	FT	FT
U01297	FT	1	100000	100000	+	FT	FT
U01298	FT	1	100000	100000	+	FT	FT
U01299	FT	1	100000	100000	+	FT	FT
U01300	FT	1	100000	100000	+	FT	FT
U01301	FT	1	100000	100000	+	FT	FT
U01302	FT	1	100000	100000	+	FT	FT

77 of fshr exon 2"

WPI. 2003-722330/68.
FT exon 299. .373

```

DR      P-PSDB: ADC24203.
ET      /*tag= c

```

[illegible]

...
PS Claim 20; SEQ ID NO 9; 229pp; English.
FT exon 451..520

```

FT /note= "nucleotides 451-520 correspond to nucleotides 8-
FT 77 of fshr exon 5"
FT 521..598
FT /*tag= c
FT /note= "nucleotides 521..598 correspond to nucleotides 6-
FT 83 of fshr exon 6"
FT 599..668
FT /*tag= c
FT /note= "nucleotides 599-668 correspond to nucleotides 6-
FT 75 of fshr exon 7"
FT 640
FT /*tag= b
FT /note= "a C to T mutation in codon 189 correlates with
FT ovarian dysgenesis"
FT 669..742
FT /*tag= c
FT /note= "nucleotides 669-742 correspond to nucleotides 7-
FT 80 of fshr exon 8"
FT 743..928
FT /*tag= c
FT /note= "nucleotides 743-928 correspond to nucleotides 6-
FT 191 of fshr exon 9"
FT 929..2179
FT /*tag= c
FT /note= "nucleotides 929-2179 correspond to nucleotides
FT 102-1352 of fshr exon 10"
FT
FT
XX WO9711194-A1.
PN
XX
XX
XX 27-MAR-1997.
PD
XX
XX 20-SEP-1996; 96WO-FI000501.
PF
XX
XX 20-SEP-1995; 95US-00531070.
PR
XX
XX (UYHE-) UNIV HELSINKI LICENSING LTD OY.
PA
XX
XX De La Chapelle A, Aittomaeki K, Huhtaniemi I;
XX
XX WPI; 1997-202900/18.
DR
XX P-PSDB; AAW14782.
XX
XX Diagnosis of ovarian dysgenesis and carriers from DNA abnormalities - by
XX amplifying DNA including follicle stimulating hormone receptor allele(s),
XX i.e. codon 189, cleaving fragments, and examination.
XX
XX Claim 17; Page 18-21; 43pp; English.
XX
XX A DNA sequence (AAT63181) comprises the coding region from exons 1-10 of
XX the wild-type fshr gene that codes for human follicle stimulating hormone
XX (FSH) receptor (AAW14782). A C to T mutation in exon 7 (codon 189) is
XX associated with ovarian dysgenesis. In a method for determining a FSH
XX receptor genotype in a human patient, fshr exon 7, or a portion of it, is
XX isolated by PCR amplification (see also AAT63195-96) and exposed to BsmI.
XX Exon 7 contains a unique BsmI site which, if mutated, will produce no
XX BsmI digestion products, thereby enabling diagnosis of ovarian dysgenesis
XX
XX Sequence 2179 BP; 575 A; 561 C; 444 G; 599 T; 0 U; 0 Other;
SQ
Query Match 100.0%; Score 18; DB 2; Length 2179;
Best Local Similarity 66.7%; Pred. No. 1.3;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAUUUUGGCCUGCUC 18
Db 69 ATAATTATGGCCCTGTC 86

RESULT 6
AAQ29377
ID AAQ29377 standard; DNA; 2180 BP.
XX
XX AAQ29377;
AC

```

```

XX 25-MAR-2003 (revised)
DT 04-MAR-1993 (first entry)
XX
XX FSHR DNA.
DE
XX Human; follicle stimulating hormone receptor; maturation;
XX spermatogenesis; birth control; ss.
KW
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FT CDS 75..2159
FT /*tag= a
FT sig_peptide 75..126
FT /*tag= b
FT mat_peptide 127..2159
FT /*tag= c
XX
XX WO9216620-A1.
XX
XX 01-OCT-1992.
PD
XX
XX 02-JAN-1992; 92WO-US000122.
PF
XX
XX 15-MAR-1991; 91US-00670085.
PR
XX
XX (ISTF ) ARS APPL RES SYST HOLDING NV.
PA
XX
XX Kelton CA, Cheng SVY, Nugent NP, Schweickhardt RL;
XX
XX WPI; 1992-349206/42.
DR
XX P-PSDB; AAR29377.
XX
XX Pure human FSH receptor, fragments and mutants - for preventing follicle
XX growth, maturation and spermatogenesis, also for use of appropriate cell
XX lines for bio-assays of FSH.
XX
XX Claim 7; Page 25; 48pp; English.
XX
XX The DNA sequence encoding human follicle stimulating hormone receptor
XX (FSHR) was obtd. by screening a lambda gtl1 cDNA library constructed from
XX RNA extracted from human testis and amplified, with a rat FSHR cDNA clone
XX as a probe. Positive colonies were used for a secondary screen which
XX isolated five putative human FSHR clones. None of the clones contained
XX the complete hFSHR coding region but could be overlapped using GCG to
XX give the complete sequence. hFSHR binds to FSH to reduce endogenous FSH
XX bioactivity, in females to prevent follicle growth and maturation and in
XX CC males to prevent spermatogenesis, i.e. as a birth control agent. (Updated
XX on 25-MAR-2003 to correct PN field.)
XX
XX Sequence 2180 BP; 577 A; 560 C; 444 G; 599 T; 0 U; 0 Other;
SQ
Query Match 100.0%; Score 18; DB 2; Length 2180;
Best Local Similarity 66.7%; Pred. No. 1.3;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AUAUUUUGGCCUGCUC 18
Db 70 ATAATTATGGCCCTGTC 87

RESULT 7
AAQ50013
ID AAQ50013 standard; cDNA to mRNA; 2222 BP.
XX
XX AAQ50013;
AC
XX
XX 25-MAR-2003 (revised)
DT 05-MAY-1994 (first entry)
XX
XX FSH receptor.
DE
XX

```


OS Homo sapiens.
XX US2004010136-A1.
PN
XX
XX
PD 15-JAN-2004.
XX
XX
PF 26-NOV-2002; 2002US-00305720.
XX
XX 30-JAN-1998; 98US-00016434.
PR
XX (INCY-) INCYTE GENOMICS INC.
PA
XX
XX
PI Au-Young J, Seilhamer J3;
XX
XX WPI; 2004-090520/09.
XX
XX
XX New composition comprising polynucleotide probes, useful as array
PT elements in a microarray for monitoring the expression of target
PT polynucleotides or purifying a subpopulation of mRNAs, cDNA, or genomic
PT fragments.
XX
XX Claim 6; SEQ ID NO 1209; 73pp; English.
XX
XX The invention relates to a composition of polynucleotide probes
CC comprising first polynucleotide probes comprising at least a portion of a
CC gene encoding a receptor-like polypeptide, second polynucleotide probes
CC comprising at least a portion of a gene encoding a transducing
CC polypeptide and third polynucleotide probes comprising at least a portion
CC of a gene encoding an effector-like polypeptide. The probes of the
CC composition are useful as array elements in a microarray for monitoring
CC the expression of target polynucleotides. The microarray is useful in the
CC diagnosis and treatment of cancer, an immunopathology or a
CC neuropathology. It can also be used for drug discovery and development.
CC toxicological and carcinogenicity studies, forensics or pharmacogenomics.
CC Microarrays can also be used for monitoring the progression of diseases
CC that may be associated with the altered expression of signalling pathway
CC polypeptides. The composition can also be used to purify a subpopulation
CC of mRNAs, cDNAs, or genomic fragments in a sample. The expression profile
CC is also useful for the diagnosis and treatment of cancer, e.g. cancers of
CC the adrenal gland, bladder, bone, bone marrow, brain, breast or cervix,
CC an immunopathology, e.g. AIDS, diabetes, pancreatitis, osteoporosis or
CC ulcerative colitis, or a neuropathology, e.g. dementia, amnesia,
CC epilepsy, Alzheimer's disease or depression. This sequence represents a
CC human polynucleotide probe of the invention. Note: The sequence data for
CC this patent did not form part of the printed specification but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html.
XX
XX Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
SQ
Query Match 100.0%; Score 18; DB 12; Length 2393;
Best Local Similarity 66.7%; Pred.No. 1.3;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
QY 1 AUAUUAUAGGCCCGUCC 18
Db :||:|||||:
61 ATAATTATGCGCTGCTC 78
RESULT 12
ADO29879
ID ADO29879 standard; cDNA; 2393 BP.
XX
AC ADO29879;
XX
XX 29-JUL-2004 (first entry)
XX
XX Human GPCR FSHR polynucleotide, SEQ ID NO:981.
XX
XX G protein-coupled receptor; GPCR; drug screening; diagnosis;
KW transgenic mouse; neurological disorder; adrenal gland disorder;
KW colon disorder; intestinal disorder; cardiovascular disorder;
KW muscular disorder; blood disorder; immune disorder; bone disorder;

KW joint disorder; metabolic disorder; nutritive disorder; cancer;
KW kidney disorder; liver disorder; lung disorder; breast disorder;
KW ovary disorder; uterus disorder; prostate disorder; testis disorder;
KW skin disorder; stomach disorder; pancreas disorder; spleen disorder;
KW thymus disorder; thyroid disorder; antiparkinsonian; antianemic;
KW cytostatic; antiinflammatory; vasotropic; antianginal; antiarrhythmic;
KW CNS; central nervous system; respiratory; antidiarrhoeic; antidiabetic;
KW viricide; hepatotropic; antibacterial; antianaemic; antisabourhoic;
KW dermatological; antiulcer; antithyroid; antiallergic; anorectic;
KW immunosuppressive; nephrotropic; gene therapy; GPCR modulator; human;
KW gene; ss.
XX
XX Homo sapiens.
XX
XX WO2004040000-A2.
XX
XX 13-MAY-2004.
XX
XX 09-SEP-2003; 2003WO-US028226.
PF
XX 09-SEP-2002; 2002US-0409303P.
PR
XX 09-APR-2003; 2003US-0461329P.
XX
XX (PRIM-) PRIMAL INC.
PA
XX Gaitanaris GA, Bergmann JE, Gragerov A, Hohmann J, Li F;
PI Madisen L, McIlwain KL, Pavlova MN, Vassilatis D, Zeng H;
XX
XX WPI; 2004-390329/36.
DR P-PSDB; ADO29321.
DR
XX Novel mammalian G protein coupled receptors, useful for identifying
PT compounds that modulates diagnosing and treating disease condition
PT associated with GPCR dysfunction e.g. autoimmune diseases, angina
PT pectoris, Parkinson's disease.
XX
XX Claim 151; SEQ ID NO 981; 542pp; English.
PS
XX The invention relates to human and mouse G protein-coupled receptors
CC (GPCRs) and nucleic acids encoding them. The invention also relates to
CC sequences at least 90% identical to the GPCR proteins and nucleic acids
CC of the invention; methods of treating, preventing or diagnosing diseases
CC associated with GPCRs of the invention; methods of screening for
CC compounds useful in the treatment of GPCR-related diseases; a transgenic
CC mouse comprising a GPCR gene of the invention; a mouse comprising a
CC mutation in a GPCR transgene or in an endogenous GPCR gene; cells derived
CC from the transgenic mice; kits comprising several mice, each of which has
CC a mutation in a different GPCR gene of the invention; and kits comprising
CC probes which hybridise to GPCR polynucleotides of the invention. The
CC invention further discloses variants of the GPCR polypeptides and vectors
CC comprising a GPCR nucleic acid. The GPCR nucleic acids and proteins may
CC be used in the diagnosis, treatment or prevention of a wide variety of
CC diseases including neurological disorders (e.g., Alzheimer's disease,
CC depression, diabetic neuropathy, Parkinson's disease or schizophrenia);
CC disorders of the adrenal gland; disorders of the colon or intestine
CC (e.g., Crohn's disease, diarrhoea, food poisoning or irritable bowel
CC syndrome); cardiovascular disorders (e.g., angina, cardiac arrhythmia or
CC myocardial infarction); muscular disorders; blood disorders (e.g.,
CC anaemia or leukaemia); immune disorders (e.g., autoimmune disorders or
CC AIDS); bone and joint disorders (e.g., osteoarthritis, rheumatoid
CC arthritis, gout or osteoporosis); metabolic or nutritive disorders (e.g.,
CC obesity, enzyme deficiency-related diseases or vitamin deficiency-related
CC diseases); and disorders of the kidney, liver, lung, breast, ovary,
CC uterus, prostate, testis, skin, stomach, pancreas, spleen, thymus and
CC thyroid (e.g., cancers). The present sequence represents a GPCR-encoding
CC nucleic acid of the invention. Note: The full sequence data for this
CC patent did not form part of the printed specification; those sequences
CC not shown were obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
SQ
Query Match 100.0%; Score 18; DB 12; Length 2393;

```
Best Local Similarity 66.7%; Pred. No. 1.3;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1 AUAUAUAGGCCUGUC 18
Db 61 ATAATTATGGCCCTGCTC 78

RESULT 13
ADR26224/c
ID ADR26224 standard; DNA; 507 BP.
XX
AC ADR26224;
XX
DT 21-OCT-2004 (first entry)
XX
DE Breast cancer prognosis marker #2085.
XX
KW ds; breast cancer; prognosis; gene expression; diagnosis.
XX
OS Homo sapiens.
XX
PN WO2004065545-A2.
XX
PD 05-AUG-2004.
XX
PF 15-JAN-2004; 2004WO-US001100.
XX
PR 15-JAN-2003; 2003US-00342887.
XX
PA (ROSE-) ROSETTA INPHARMATICS LLC.
PA (NECA-) NETHERLANDS CANCER INST.
XX
PI Van't Veer LJ, He Y;
XX
WPI; 2004-593473/57.
XX
Classifying a breast cancer patient according to prognosis comprises
determining the similarity between the level of expression of each of
five genes in a cell sample taken from patient, to control levels.
XX
Disclosure; SEQ ID NO 2085; 226pp; English.
XX
The invention relates to a method of classifying a breast cancer patient
according to prognosis by determining the similarity between the level of
expression of each of five genes for which markers are listed in the
specification, in a cell sample taken from the breast cancer patient, to
control levels of expression for each respective five genes to obtain a
patient similarity value. The methods are useful for classifying a breast
cancer patient according to prognosis. Kits and computer program products
are useful for data analysis using the diagnostic, prognostic and
statistical methods of the invention. This sequence corresponds to a
marker used in the method of the invention.
XX
Sequence 507 BP; 151 A; 103 C; 90 G; 163 T; 0 U; 0 Other;

Query Match 83.3%; Score 15; DB 13; Length 507;
Best Local Similarity 66.7%; Pred. No. 64;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAUAUAGGCCUGUC 17
Db 177 AATTATGGCCCTGCT 163

RESULT 14
ABT03390
ID ABT03390 standard; DNA; 612 BP.
XX
AC ABT03390;
XX
DT 28-NOV-2002 (first entry)
XX

Query Match 83.3%; Score 15; DB 13; Length 507;
Best Local Similarity 66.7%; Pred. No. 64;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAUAUAGGCCUGUC 17
Db 177 AATTATGGCCCTGCT 163

RESULT 15
ABT03391
ID ABT03391 standard; DNA; 628 BP.
XX
AC ABT03391;
XX
DT 28-NOV-2002 (first entry)
XX
DE Ovary cell-specific DNA sequence 107.
XX
KW Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;
KW ovary specific protein; ovarian cancer; breast cancer; ss; vaccine;
KW gene therapy.
XX
OS Homo sapiens.
XX
PN WO200238606-A2.
XX
PD 16-MAY-2002.
XX
PF 07-NOV-2001; 2001WO-US046459.
XX
PR 08-NOV-2000; 2000US-0246640P.
XX
PA (DIAD-) DIADEXUS INC.
XX
PI Sun Y, Recipon H, Salceda S, Liu C;
XX
WPI; 2002-519297/55.
XX
Polypeptide and polynucleotides present in normal and neoplastic ovary
cells, useful for identifying, monitoring, staging, diagnosing,
preventing and treating ovarian cancer, and non-cancerous disease states
in the ovary.
XX
Claim 1; Page 192; 247pp; English.
XX
The invention comprises amino acid and DNA sequences which are present in
normal and neoplastic ovary cells. The DNA and protein sequences of the
invention are useful for determining the presence of an ovary specific
nucleic acid or an ovary specific protein in a sample. The DNA and
protein sequences of the invention are useful for diagnosing and
monitoring the presence and metastasis of ovarian cancer and breast
cancer. Nucleotides ABT03285 - ABT03421 represents the ovary cell
specific DNA sequences of the invention
XX
Sequence 612 BP; 202 A; 112 C; 108 G; 190 T; 0 U; 0 Other;

Query Match 83.3%; Score 15; DB 6; Length 612;
Best Local Similarity 66.7%; Pred. No. 64;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAUAUAGGCCUGUC 17
Db 289 AATTATGGCCCTGCT 303

RESULT 15
ABT03391
ID ABT03391 standard; DNA; 628 BP.
XX
AC ABT03391;
XX
DT 28-NOV-2002 (first entry)
XX
DE Ovary cell-specific DNA sequence 107.
XX
KW Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;
KW ovary specific protein; ovarian cancer; breast cancer; ss; vaccine;
KW gene therapy.
XX
OS Homo sapiens.
XX
PN WO200238606-A2.
XX
PD 16-MAY-2002.
XX
PF 07-NOV-2001; 2001WO-US046459.
XX
PR 08-NOV-2000; 2000US-0246640P.
XX
```

PA (DIAD-) DIADEXUS INC.
XX
PI Sun Y, Recipon H, Salceda S, Liu C;
XX
DR WPI; 2002-519297/55.
XX
PT Polypeptide and polynucleotides present in normal and neoplastic ovary
PT cells, useful for identifying, monitoring, staging, diagnosing,
PT preventing and treating ovarian cancer, and non-cancerous disease states
PT in the ovary.
XX
PS Claim 1; Page 192-193; 247pp; English.
XX
CC The invention comprises amino acid and DNA sequences which are present in
CC normal and neoplastic ovary cells. The DNA and protein sequences of the
CC invention are useful for determining the presence of an ovary specific
CC nucleic acid or an ovary specific protein in a sample. The DNA and
CC protein sequences of the invention are useful for diagnosing and
CC monitoring the presence and metastasis of ovarian cancer and breast
CC cancer. Nucleotides ABT03285 - ABT03421 represents the ovary cell
CC specific DNA sequences of the invention
XX
SQ Sequence 628 BP; 202 A; 115 C; 102 G; 209 T; 0 U; 0 Other;

Query Match 83.3%; Score 15; DB 6; Length 628;
Best Local Similarity 66.7%; Pred. No. 64;
Matches 10; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 3 AATUUGGCCCGCU 17
|:::|||||:
Db 305 AATTATGGCCCTGCT 319

Search completed: November 29, 2005, 23:12:28
Job time : 223.5 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 18:29:48 ; Search time 1867.5 Seconds
(without alignments)
450.960 Million cell updates/sec

Title: US-10-018-716B-1
Perfect score: 18
Sequence: 1 gacgaggccataattat 18

Scoring table: OLIGO-NUC
Gapop 60.0 , Gapext 60.0

Searched: 41078325 seqs, 23393541228 residues

Word size : 0

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : EST:*
1: gb_est1:*
2: gb_est2:*
3: gb_est3:*
4: gb_est4:*
5: gb_est5:*
6: gb_est6:*
7: gb_est7:*
8: gb_est8:*
9: gb_gsa1:*
10: gb_gsa2:*
11: gb_gsa3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	17	94.4	794	1	AJ641058
C 2	16	88.9	312	2	BE153987
C 3	16	88.9	340	3	BI432519
C 4	16	88.9	439	8	T14826
C 5	16	88.9	500	3	BP191026
C 6	16	88.9	652	2	BG600462
C 7	16	88.9	740	8	CX409188
C 8	16	88.9	747	10	CL169941
C 9	16	88.9	752	10	CW385975
C 10	16	88.9	759	2	BG889203
C 11	16	88.9	761	10	CL169940
C 12	16	88.9	1030	10	CL033121
C 13	15	83.3	85	6	CD963839
C 14	15	83.3	95	10	CG560188
C 15	15	83.3	102	10	CG671007
C 16	15	83.3	208	7	CO323095
C 17	15	83.3	238	10	CG556891
C 18	15	83.3	247	8	CX626914
C 19	15	83.3	285	3	BI491822
C 20	15	83.3	306	2	BF353376
C 21	15	83.3	308	2	BG184004
C 22	15	83.3	336	2	BG790049

C 23	15	83.3	345	3	BM443576
C 24	15	83.3	346	2	BB710886
C 25	15	83.3	348	5	BU019684
C 26	15	83.3	365	7	CO190893
C 27	15	83.3	374	1	AW020862
C 28	15	83.3	401	10	AB082236
C 29	15	83.3	405	9	BH388002
C 30	15	83.3	435	2	BG181938
C 31	15	83.3	437	1	AW317773
C 32	15	83.3	441	2	BG187151
C 33	15	83.3	444	5	BQ977181
C 34	15	83.3	445	6	CA938690
C 35	15	83.3	446	5	BU761255
C 36	15	83.3	449	9	AO631994
C 37	15	83.3	452	2	BG205213
C 38	15	83.3	465	2	BI071352
C 39	15	83.3	471	2	BG187152
C 40	15	83.3	476	1	AW099240
C 41	15	83.3	496	8	DN650903
C 42	15	83.3	501	2	BG214697
C 43	15	83.3	511	1	AI150588
C 44	15	83.3	516	1	AL900125
C 45	15	83.3	533	8	DN650904

ALIGNMENTS

RESULT 1
AJ641058/c
LOCUS
DEFINITION
AJ641058 Populus tremula x P. tremuloides/Amanita muscaria mixed EST library Populus tremula x P. tremuloides/Amanita muscaria mixed EST library cDNA clone ptamabc210068e03, mRNA sequence.
ACCESSION
AJ641058
VERSION
AJ641058.1
KEYWORDS
GI:58309785
SOURCE
Populus tremula x P. tremuloides/Amanita muscaria mixed EST library
ORGANISM
Populus tremula x P. tremuloides/Amanita muscaria mixed EST library
REFERENCE
1 (bases 1 to 794)
AUTHORS
Bekel, T., Meyer, F., Kuester, H., Manthey, K., Perlick, A., Puehler, A., Bock, A. and Nehls, U.
TITLE
ESTs of fully developed ectomycorrhizas formed between Populus tremula x tremuloides and Amanita muscaria
JOURNAL
Unpublished (2005)
COMMENT
Contact: Bekel T.
Physiologische Oekologie der Pflanzen
Eberhard-Karls-Universitaet
Auf der Morgenstelle 1, Tuebingen, BW 72076, Germany.

FEATURES
source
1..794
/organism="Populus tremula x P. tremuloides/Amanita muscaria mixed EST library"
/mol_type="mRNA"
/db_xref="taxon:143775"
/clone="ptamabc210068e03"
/clone_lib="Populus tremula x P. tremuloides/Amanita muscaria mixed EST library"

ORIGIN
Query Match 94.4%; Score 17; DB 1; Length 794;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AGCAGGCCATAATTAT 18
|||||
Db 469 AGCAGGCCATAATTAT 453

RESULT 2
BE153987
LOCUS
BB153987 312 bp mRNA linear EST 21-JUN-2000


```

source
1. .439
/organism="Ricinus communis"
/mol_type="mRNA"
/strain="Baker 296"
/db_xref="taxon:3998"
/clone="pcrs268"
/clone_lib="lambdaZAPgt"
/note="Vector: lambdaZAPII; Site 1: EcoRI; Site 2: XhoI;
Poly(A)+ RNA was purified from developing stage III to
stage V (Greenwood & Bewley, Can. J. Bot. 60:1751-1760,
1982) endosperm plus embryo of immature castor fruits.
cDNA was synthesized and cloned into lambdaZAPII according
to the instructions of the manufacturer (Stratagene):
synthesis was primed from the poly(A) tail, and cloned
directionally into XhoI (3') and EcoRI (5') sites. In few
cases, sequence data indicated that this directionality
was reversed. Partial cDNA clones predominate. "

ORIGIN
Query Match      88.9%; Score 16; DB 8; Length 439;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATT 16
|||||
DB 317 GAGCAGGGCCATAATT 332

RESULT 5
BP191026/c
LOCUS BP191026 planarian head cDNA Dugesia japonica cDNA clone 06171_HH,
DEFINITION mRNA sequence.
ACCESSION BP191026
VERSION BP191026.1 GI:32905550
KEYWORDS EST.
SOURCE Dugesia japonica
ORGANISM Dugesia japonica
Eukaryota; Metazoa; Platyhelminthes; Turbellaria; Seriata;
Tricladida; Paludicola; Dugesidae; Dugesia.
1 (bases 1 to 500)
Mineta,K., Nakazawa,M., Cebria,F., Ikeo,K., Agata,K. and
Gojobori,T.
Origin and evolutionary process of the CNS elucidated by
comparative genomics analysis of planarian ESTs
Proc. Natl. Acad. Sci. U.S.A. 100 (13), 7666-7671 (2003)
12802012
Contact: Katsuhiko Mineta
National Institute of Genetics, Center for Information Biology and
DNA Data Bank of Japan
1111 Yata, Mishima, Shizuoka 411-8540, Japan
Tel: 81-559-81-6847
Fax: 81-559-81-6848
Email: kmineta@lab.nig.ac.jp
These clones and additional information are obtained from our web
site: http://www.cib.nig.ac.jp/dda/.

FEATURES
Location/Qualifiers
1..500
/organism="Dugesia japonica"
/mol_type="mRNA"
/db_xref="taxon:6161"
/clone="06171_HH"
/tissue_type="head"
/dev_stage="adult"
/clone_lib="planarian head cDNA"

ORIGIN
Query Match      88.9%; Score 16; DB 3; Length 500;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AGCAGGGCCATAATTA 17
|||||

source
1. .439
/organism="Ricinus communis"
/mol_type="mRNA"
/strain="Baker 296"
/db_xref="taxon:3998"
/clone="pcrs268"
/clone_lib="lambdaZAPgt"
/note="Vector: lambdaZAPII; Site 1: EcoRI; Site 2: XhoI;
Poly(A)+ RNA was purified from developing stage III to
stage V (Greenwood & Bewley, Can. J. Bot. 60:1751-1760,
1982) endosperm plus embryo of immature castor fruits.
cDNA was synthesized and cloned into lambdaZAPII according
to the instructions of the manufacturer (Stratagene):
synthesis was primed from the poly(A) tail, and cloned
directionally into XhoI (3') and EcoRI (5') sites. In few
cases, sequence data indicated that this directionality
was reversed. Partial cDNA clones predominate. "

ORIGIN
Query Match      88.9%; Score 16; DB 8; Length 439;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATT 16
|||||
DB 317 GAGCAGGGCCATAATT 332

RESULT 6
BP600462
LOCUS BP600462 652 bp mRNA linear EST 07-MAR-2003
DEFINITION EST505357 cSTS Solanum tuberosum cDNA clone CSTS2911 5' sequence,
mRNA sequence.
ACCESSION BP600462
VERSION BP600462.1 GI:13617598
KEYWORDS EST.
SOURCE Solanum tuberosum (potato)
ORGANISM Solanum tuberosum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
asterids; lamiales; Solanales; Solanaceae; Solanum.
1 (bases 1 to 652)
van der Hoeven,R., Bezzerides,J., Sun,H., Cho,J., Chiemingo,A.,
Bougri,O., Buell,C.R., Romning,C., Tanksley,S. and Baker,B.
Generations of ESTs from sprouting potato eyes
Unpublished (2000)
Contact: Robin Buell
The Institute for Genomic Research
9712 Medical Center Dr, Rockville, MD 20850, USA
Email: potato-array@igr.org
This clone can be obtained from the University of Arizona Genomics
Institute. Orders can be made through URL:
http://genome.arizona.edu/orders/
Seq primer: M13F-R.

FEATURES
Location/Qualifiers
1..652
/organism="Solanum tuberosum"
/mol_type="mRNA"
/cultivar="Kennebec"
/db_xref="taxon:4113"
/clone="CSTS2911"
/tissue_type="sprouting eyes from tubers"
/dev_stage="12-14 weeks post harvest"
/lab_host="SOLR"
/clone_lib="cSTS"
/note="Vector: pBluescript SK(-); Site 1: EcoRI; Site 2:
XhoI; Various sizes of sprouting eyes (2mm to 15mm) were
taken from tubers. The tubers were incubated at 26C in the
dark for 2-3 weeks prior to sprouting. The eyes were
frozen in liquid nitrogen immediately upon removal from
tubers."

ORIGIN
Query Match      88.9%; Score 16; DB 2; Length 652;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATT 16
|||||
DB 521 GAGCAGGGCCATAATT 536

RESULT 7
CX409188
LOCUS CX409188 740 bp mRNA linear EST 06-JAN-2005
DEFINITION JGI XZT32096.fwd NIH XGC tropTad5 Xenopus tropicalis cDNA clone
IMAGE:7608418 5', mRNA sequence.
ACCESSION CX409188
VERSION CX409188.1 GI:57189890
KEYWORDS EST.
SOURCE Xenopus tropicalis (western clawed frog)
ORGANISM Xenopus tropicalis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae;
Xenopodinae; Xenopus; Silurana.
1 (bases 1 to 740)
Richardson,P., Lucas,S., Rokhsar,D., Dettter,J.C., Ng,D.C.,
Brokstein,P. and Lindquist,E.A.

```

TITLE
JOURNAL
COMMENT

DOE Joint Genome Institute Xenopus tropicalis EST project
Unpublished (2004)
Contact: Lindquist, E.A., Richardson, P.
DOE Joint Genome Institute
2800 Mitchell Drive, Walnut Creek, CA 94598, USA
Tel: 925 296 5600
Fax: 925 296 5710
Email: cdna@jgi-psf.org

Tissue Procurement: Richard M. Harland Laboratory, University of California, Berkeley: <http://tropicalis.berkeley.edu/home>
cDNA Library Preparation: Richard M. Harland Laboratory, University of California, Berkeley
DNA Sequencing: DOE Joint Genome Institute: <http://www.jgi.doe.gov>
Clone Distribution: I.M.A.G.E. Consortium/LLNL:
<http://image.llnl.gov>
Naming Conventions: EST name is generated by the concatenation of the JGI Clone Id and the direction of sequencing. The suffix '.fwd' indicates a forward sequencing read of the insert. It does not necessarily reflect the orientation of the insert.
Plate: XZT 0333 row: o column: 8
High quality sequence stop: 706.
Location/Qualifiers
1. .740
/organism="Xenopus tropicalis"
/mol_type="mRNA"
/db_xref="taxon:8364"
/clone="IMAGE:7608418"
/tissue_type="whole embryo"
/dev_stage="Tadpole (st. 36-41)"
/lab_host="E. coli XL1-Blue derivative, Stratagene Electrogen-Blue"
/clone_lib="NIH XGC tropTads"
/note="Vector: PCS108; Site_1: SalI; Site_2: NotI; Tadpole library constructed by Russell B. Fletcher in R. Harland's lab using poly A RNA and oligo dt primers (Invitrogen SuperScript Plasmid System for cDNA Synthesis and Cloning). SalI (5' end) -NotI (3' end) cDNA was inserted into vector PCS108
(<http://mcb.berkeley.edu/labs/harland/pages/plasmids.html>)"

FEATURES
source
1. .740

ORIGIN
Query Match 88.9%; Score 16; DB 8; Length 740;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GCAGGGCCCAATTAT 18
Db 28 GCAGGGCCCAATTAT 43
|||||

RESULT 8
CL169941/c
LOCUS
DEFINITION
104.370 10813405.148 31788.109 Sorghum methylation-filtered library (LibID: 104) Sorghum bicolor genomic clone 10813405, genomic survey sequence.

ACCESSION
CL169941
VERSION
KEYWORDS
SOURCE
ORGANISM
Sorghum bicolor (sorghum)
Sorghum bicolor
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Sorghum.
1 (bases 1 to 747)

REFERENCE
AUTHORS
Bedell, J.A., Budiman, M.A., Nunberg, A., Citek, R.W., Robbins, D., Jones, J., Flick, E., Rohlfing, T., Fries, J., Bradford, K., McMenamy, J., Smith, M., Huleman, H., Roe, B.A., Wiley, G., Korff, I.F., Rabinowicz, P.D., Lakey, N., McCombie, W.R., Jeddeloh, J.A. and Martienssen, R.A.
Sorghum genome sequencing by methylation filtration
PLoS Biol. 3 (1), e13 (2005)

TITLE
JOURNAL
COMMENT

CL169941
LOCUS
DEFINITION
747 bp DNA linear GSS 06-JAN-2004
104.370 10813405.148 31788.109 Sorghum methylation-filtered library (LibID: 104) Sorghum bicolor genomic clone 10813405, genomic survey sequence.

ACCESSION
CL169941
VERSION
KEYWORDS
SOURCE
ORGANISM
Sorghum bicolor (sorghum)
Sorghum bicolor
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Sorghum.
1 (bases 1 to 747)

REFERENCE
AUTHORS
Bedell, J.A., Budiman, M.A., Nunberg, A., Citek, R.W., Robbins, D., Jones, J., Flick, E., Rohlfing, T., Fries, J., Bradford, K., McMenamy, J., Smith, M., Huleman, H., Roe, B.A., Wiley, G., Korff, I.F., Rabinowicz, P.D., Lakey, N., McCombie, W.R., Jeddeloh, J.A. and Martienssen, R.A.
Sorghum genome sequencing by methylation filtration
PLoS Biol. 3 (1), e13 (2005)

15660154
COMMENT
Contact: Bedell JA
Orion Genomics, LLC
4041 Forest Park Ave, St. Louis, MO 63108, USA
Tel: 314 615 6979
Fax: 314 615 5975
Email: jbedell@oriongenomics.com
Plate: 370 row: e column: 13
Seq primer: SWfor Forward
Class: methylation filtered
High quality sequence stop: 747.
Location/Qualifiers
1. .747
/organism="Sorghum bicolor"
/mol_type="genomic DNA"
/cultivar="ATx623"
/db_xref="taxon:4558"
/clones="10813405"
/clone_lib="Sorghum methylation-filtered library (LibID: 104)"
/note="Organ: leaf; Vector: pBCSK(-); Site_1: HincII; DNA prepared from purified nuclei was randomly sheared, end-repaired, size fractionated to enrich for the 0.5 to 5 kb fraction, ligated into HincII-digested pBCSK(-) vector and electroporated into E. coli cells. This is a methylation-filtered library."

ORIGIN
Query Match 88.9%; Score 16; DB 10; Length 747;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AGCAGGGCCCAATTA 17
Db 402 AGCAGGGCCCAATTA 387
|||||

RESULT 9
CW385975
LOCUS
DEFINITION
752 bp DNA linear GSS 01-NOV-2004
fabb001f069k13k0 Sorghum methylation filtered library (LibID: 104) Sorghum bicolor genomic clone fabb001f069k13, genomic survey sequence.

ACCESSION
CW385975
VERSION
KEYWORDS
SOURCE
ORGANISM
Sorghum bicolor (sorghum)
Sorghum bicolor
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Sorghum.
1 (bases 1 to 752)

REFERENCE
AUTHORS
Bedell, J.A., Budiman, M.A., Nunberg, A., Citek, R.W., Robbins, D., Jones, J., Flick, E., Rohlfing, T., Fries, J., Bradford, K., McMenamy, J., Smith, M., Huleman, H., Roe, B.A., Wiley, G., Korff, I.F., Rabinowicz, P.D., Lakey, N., McCombie, W.R., Jeddeloh, J.A. and Martienssen, R.A.
Sorghum genome sequencing by methylation filtration
PLoS Biol. 3 (1), e13 (2005)

TITLE
JOURNAL
COMMENT
15660154
Contact: Bedell JA
Orion Genomics, LLC
4041 Forest Park Ave, St. Louis, MO 63108, USA
Tel: 314 615 6979
Fax: 314 615 5975
Email: jbedell@oriongenomics.com
Plate: fabb001f069 row: k column: 13
Seq primer: k Reverse
Class: methylation filtered
High quality sequence stop: 752.
Location/Qualifiers
1. .752
/organism="Sorghum bicolor"

/mol_type="genomic DNA"
 /cultivar="ATx623"
 /db_xref="taxon:4558"
 /clone="febb001f069k13"
 /clone_lib="Sorghum methylation filtered library (LibID: 104)"
 /note="Organ: leaf; Vector: pBCSK(-); Site 1: HincII; DNA prepared from purified nuclei was randomly sheared, end-repaired, size fractionated to enrich for the 0.5 to 5 kb fraction, ligated into HincII-digested pBCSK(-) vector and electroporated into E. coli cells. This is a methylation filtered library."

ORIGIN

Query Match 88.9%; Score 16; DB 10; Length 752;
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AGCAGGGCCATAATTA 17

Db 599 AGCAGGGCCATAATTA 614

RESULT 10

BG889203

LOCUS

DEFINITION EST515054 cSTD Solanum tuberosum cDNA clone cSTD13G2 5' sequence,
 mRNA sequence.

ACCESSION

BG889203

VERSION

BG889203.1 GI:14266289

KEYWORDS

Solanum tuberosum (potato)

ORGANISM

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
 asterids; lamids; Solanales; Solanaceae; Solanum.

REFERENCE

1 (bases 1 to 759)

AUTHORS

van der Hoeven,R., Bezzerides,J., Ewing,E., Cho,J., Chiemiango,A.,
 Bougri,O., Buell,C.R., Ronning,C., Tanksley,S. and Baker,B.

TITLE

Generations of ESTs from dormant potato tubers

JOURNAL

COMMENT

Unpublished (2001)
 Contact: Robin Buell
 The Institute for Genomic Research
 9712 Medical Center Dr, Rockville, MD 20850, USA
 Email: potato-array@igr.org
 This clone can be obtained from the University of Arizona Genomics
 Institute. Orders can be made through URL:
 http://genome.arizona.edu/orders/
 Seq primer: M13F-R.

FEATURES

source

1..759

Location/Qualifiers

/organism="Solanum tuberosum"

/mol_type="mRNA"

/cultivar="Kennebec"

/db_xref="taxon:4113"

/clone="cSTD13G2"

/tissue_type="dormant tuber"

/dev_stage="one month post-harvest"

/lab_host="SOLR"

/clone_lib="cSTD"

/notes="Vector: pBluescript SK(-); Site 1: EcoRI; Site 2:

XhoI; This library targets genes expressed in dormant
 tubers. This library was made from sections of dormant
 tubers, avoiding the buds and epidermis. Tubers were stored
 for one month post-harvest at 40C. The tuber was peeled,
 well away from the surface. Then it was chopped into 1-2
 mm cubes and immediately frozen in liquid nitrogen. This
 library is noted as P4 in Tanksley lab notebooks."

ORIGIN

Query Match

88.9%; Score 16; DB 2; Length 759;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATT 16

Db 606 GAGCAGGGCCATAATT 621

RESULT 11

CL169940

LOCUS

DEFINITION

CL169940 761 bp DNA linear GSS 06-JAN-2004
 104 370 10813405 116 31789 109 Sorghum methylation-filtered library
 (LibID: 104) Sorghum bicolor genomic clone 10813405, genomic survey
 sequence.

ACCESSION

CL169940

VERSION

CL169940.1 GI:40682352

KEYWORDS

GSS.

SOURCE

Sorghum bicolor (sorghum)

ORGANISM

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
 clade; Panicoideae; Andropogoneae; Sorghum.

REFERENCE

1 (bases 1 to 761)

AUTHORS

Bedell,J.A., Budiman,M.A., Nunberg,A., Citek,R.W., Robbins,D.,
 Jones,J., Flick,E., Rohlfing,T., Fries,J., Bradford,K.,
 McMenamy,J., Smith,M., Holsman,H., Roe,B.A., Wiley,G., Korf,I.F.,
 Rabinowicz,P.D., Lakey,N., McCombie,W.R., Jeddaloeh,J.A. and
 Martienssen,R.A.

TITLE

Sorghum genome sequencing by methylation filtration

JOURNAL

PLoS Biol. 3 (1), e13 (2005)

PUBMED

15660154

COMMENT

Contact: Bedell JA

Orion Genomics, LLC

4041 Forest Park Ave, St. Louis, MO 63108, USA

Tel: 314 615 6979

Fax: 314 615 5975

Email: jbedell@oriongenomics.com

Plate: 370 row: e column: 13

Seq primer: T3 Reverse

Class: methylation filtered

High quality sequence stop: 761.

Location/Qualifiers

1..761

/organism="Sorghum bicolor"

/mol_type="genomic DNA"

/cultivar="ATx623"

/db_xref="taxon:4558"

/clone="10813405"

/clone_lib="Sorghum methylation-filtered library (LibID:

104)"

/note="Organ: leaf; Vector: pBCSK(-); Site 1: HincII; DNA

prepared from purified nuclei was randomly sheared,

end-repaired, size fractionated to enrich for the 0.5 to 5

kb fraction, ligated into HincII-digested pBCSK(-) vector

and electroporated into E. coli cells. This is a

methylation-filtered library."

ORIGIN

Query Match 88.9%; Score 16; DB 10; Length 761;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AGCAGGGCCATAATTA 17

Db 639 AGCAGGGCCATAATTA 654

RESULT 12

CL033121/c

LOCUS

DEFINITION

CL033121 1030 bp DNA linear GSS 31-DEC-2003
 CH216-36A12 Sp6.1 CH216 Xenopus tropicalis genomic clone
 CH216-36A12, genomic survey sequence.

ACCESSION

CL033121

VERSION

CL033121.1 GI:40483484

KEYWORDS

GSS.

SOURCE
ORGANISM
Xenopus tropicalis (western clawed frog)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipidoidea; Pipidae;
Xenopodinae; Xenopus; Silurana.
REFERENCE
AUTHORS
Krenitzki, C., Carter, J., McPherson, J., Warren, W., Graves, T.,
Mardis, E. and Wilson, R.
TITLE
JOURNAL
COMMENT
A physical map of the xenopus tropicalis genome
Unpublished (2003)
Contact: Richard K Wilson
Genome Sequencing Center
Washington University School of Medicine
Email: submisions@wustl.edu
Insert Length: 175000 Std Error: 0.00
Seq primer: Sp6 ATTAGGTGACACTATAG
Classes: BAC ends
High quality sequence start: 29
High quality sequence stop: 943.
FEATURES
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/strain="Nigerian frog"
/db_xref="taxon:8364"
/clone="CH216-36A12"
/sex="male"
/cell_lines="Stock 248 F7A2, inbred N7"
/clone_lib="CH216"
/note="Vector: pTARBAC2.1; CHORI-216 Xenopus tropicalis
BAC library"
ORIGIN
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Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3 GCAGGGCCATAATTAT 18
Db 47 GCAGGGCCATAATTAT 32
RESULT 13
CD963839/c
LOCUS
DEFINITION
SDY 133 GeneTag2 Zea mays cDNA, mRNA sequence. EST 16-JUL-2003
ACCESSION
CD963839
VERSION
CD963839.1 GI:32824117
KEYWORDS
EST.
SOURCE
Zea mays
ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
clade; Panicoideae; Andropogoneae; Zea.
REFERENCE
1 (bases 1 to 85)
AUTHORS
Genoplante.
TITLE
JOURNAL
COMMENT
Genoplante, a major partnership french program in plant genomics
Unpublished (2003)
Contact: Genoplante
Genoplante
93, rue Henri Rochefort 91025 EVRY CEDEX France
Tel: 33 1 69 47 54 00
Fax: 33 1 69 47 54 10
This sequence has been generated in the framework of the french
plant genomics programme 'Genoplante' (<http://www.genoplante.com>
and <http://genoplante-info.infobiogen.fr>).
FEATURES
source
1..85
/organism="Zea mays"
/mol_type="mRNA"
/cultivar="mixture"
/db_xref="taxon:4577"
/clone_lib="GeneTag2"

ORIGIN
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Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GAGCAGGGCCATAAT 15
Db 61 GAGCAGGGCCATAAT 47
RESULT 14
CG560188
LOCUS
DEFINITION
OST180267 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST180267,
mRNA sequence.
ACCESSION
CG560188
VERSION
CG560188.1 GI:37346775
KEYWORDS
GSS.
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Murioidea; Muridae; Murinae; Mus.
REFERENCE
1 (bases 1 to 95)
AUTHORS
Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richter, L.J.,
Piggott, J., BeltrandeRio, H., Buxton, E.C., Edwards, J., Finch, R.A.,
Friddle, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C.,
Key, B.W. Jr., Kipp, P., Kohlhaufl, B., Ma, Z.-Q., Markesich, D.,
Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z.,
Sparks, M.J., Van Sligtenhorst, I., Vogel, P., Walke, W., Xu, N.,
Zhu, Q., Perren, C. and Sands, A.T.
TITLE
Wnk1 kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention
Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
14610273
JOURNAL
PUBMED
COMMENT
Contact: Zambrowicz BP
OmniBank
Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: materials@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as
described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
Class: Gene Trap.
FEATURES
source
1..95
/organism="Mus musculus"
/mol_type="mRNA"
/strain="129Sv/Ev"
/db_xref="taxon:10090"
/clone="OST180267"
/cell_type="embryonic stem cell"
/clone_lib="Mus musculus 129Sv/Ev"
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Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3 GCAGGGCCATAATTA 17
Db 37 GCAGGGCCATAATTA 51
RESULT 15
CG671007
LOCUS
DEFINITION
OST472166 Mus musculus 129Sv/Ev Mus musculus cDNA clone OST472166,
mRNA sequence.
ACCESSION
CG671007
VERSION
CG671007.1 GI:37494856
KEYWORDS
GSS.
SOURCE
Mus musculus (house mouse)

ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridea; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 102)
AUTHORS Zambrowicz,B.P., Abuin,A., Ramirez-Solis,R., Richter,L.J.,
Piggott,J., BeltrandeRio,H., Buxton,E.C., Edwards,J., Finch,R.A.,
Fridde,C.J., Gupta,A., Hansen,G., Hu,Y., Huang,W., Jaing,C.,
Key,B.W., Jr., Kipp,P., Kohlhauff,B., Ma,Z.-Q., Markesich,D.,
Payne,R., Potter,D.G., Qian,N., Shaw,J., Schrick,J., Shi,Z.-Z.,
Sparks,M.J., Van Sligtenhorst,I., Vogel,P., Walke,W., Xu,N.,
Zhu,Q., Person,C. and Sands,A.T.

TITLE Wnk1 kinase deficiency lowers blood pressure in mice: a gene-trap
screen to identify potential targets for therapeutic intervention
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
PUBMED 14610273
COMMENT Contact: Zambrowicz BP
Omnibank
Lexicon Genetics Incorporated
4000 Research Forest Drive, The Woodlands, TX 77381, USA
Email: materials@lexgen.com
Gene trap sequence tag generated by 3' RACE from mouse ES cells as
described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
Class: Gene trap.
Location/Qualifiers
1..102
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/strain="129Sv/Ev"
/db_xref="taxon:10090"
/clone="OST472166"
/cell_type="embryonic stem cell"
/clone_lib="Mus musculus 129Sv/Ev"

ORIGIN
Query Match 83.3%; Score 15; DB 10; Length 102;
Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 GCAGGGCCCATATTA 17
Db 28 GCAGGGCCCATATTA 42

Search completed: November 30, 2005, 00:44:45
Job time : 1871.5 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 17:06:31 ; Search time 136.5 Seconds
(without alignments)
19.597 Million cell updates/sec

Title: US-10-018-716B-1

Perfect score: 18

Sequence: 1 gagcaggccataattat 18

Scoring table: OLIGO_NUC

Gapop_60.0 , Gapext 60.0

Searched: 3205263 seqs, 74304013 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6410526

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications_NA_New.*
1: /cgn2_6/ptodata/2/pubpna/us10_NEW_PUB.seq.*
2: /cgn2_6/ptodata/2/pubpna/us06_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/us07_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/us08_NEW_PUB.seq.*
5: /cgn2_6/ptodata/2/pubpna/us09_NEW_PUB.seq.*
6: /cgn2_6/ptodata/2/pubpna/uct_NEW_PUB.seq.*
7: /cgn2_6/ptodata/2/pubpna/us11_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/us11_NEW_PUB.seq2.*
9: /cgn2_6/ptodata/2/pubpna/us11_NEW_PUB.seq3.*
10: /cgn2_6/ptodata/2/pubpna/us60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	14	77.8	1149	9 US-11-082-389-213	Sequence 213, App
C 2	12	66.7	19 8	US-11-101-244-173294	Sequence 173294,
C 3	12	66.7	19 8	US-11-101-244-339765	Sequence 339765,
C 4	12	66.7	19 8	US-11-101-244-600029	Sequence 600029,
C 5	12	66.7	19 8	US-11-101-244-1044082	Sequence 1044082,
C 6	12	66.7	19 8	US-11-101-244-1044118	Sequence 1044118,
C 7	12	66.7	19 8	US-11-101-244-1152178	Sequence 1152178,
C 8	12	66.7	19 8	US-11-101-244-1152276	Sequence 1152276,
C 9	12	66.7	19 8	US-11-101-244-1311535	Sequence 1311535,
C 10	12	66.7	19 8	US-11-101-244-1430673	Sequence 1430673,
C 11	12	66.7	19 8	US-11-101-244-1430674	Sequence 1430674,
C 12	12	66.7	19 9	US-11-083-784-173294	Sequence 173294,
C 13	12	66.7	19 9	US-11-083-784-339765	Sequence 339765,
C 14	12	66.7	19 9	US-11-083-784-600029	Sequence 600029,
C 15	12	66.7	19 9	US-11-083-784-1044082	Sequence 1044082,
C 16	12	66.7	19 9	US-11-083-784-1044118	Sequence 1044118,
C 17	12	66.7	19 9	US-11-083-784-1152178	Sequence 1152178,
C 18	12	66.7	19 9	US-11-083-784-1152276	Sequence 1152276,
C 19	12	66.7	19 9	US-11-083-784-1311535	Sequence 1311535,
C 20	12	66.7	19 9	US-11-083-784-1430673	Sequence 1430673,
C 21	12	66.7	19 9	US-11-083-784-1430674	Sequence 1430674,
C 22	12	66.7	844	9 US-11-082-389-441	Sequence 441, App
C 23	12	66.7	1095	9 US-11-082-389-439	Sequence 439, App

C 24	12	66.7	1656	1	US-10-131-826A-239	Sequence 239, App
C 25	12	66.7	3458	1	US-10-793-626-3510	Sequence 3510, App
C 26	12	66.7	6708	1	US-10-821-234-164	Sequence 164, App
C 27	12	66.7	7382	1	US-10-839-211-1	Sequence 1, Appli
C 28	11	61.1	19	8	US-11-101-244-341877	Sequence 341877,
C 29	11	61.1	19	8	US-11-101-244-343613	Sequence 343613,
C 30	11	61.1	19	8	US-11-101-244-343631	Sequence 343631,
C 31	11	61.1	19	8	US-11-101-244-374101	Sequence 374101,
C 32	11	61.1	19	8	US-11-101-244-380293	Sequence 380293,
C 33	11	61.1	19	8	US-11-101-244-425500	Sequence 425500,
C 34	11	61.1	19	8	US-11-101-244-425510	Sequence 425510,
C 35	11	61.1	19	8	US-11-101-244-425572	Sequence 425572,
C 36	11	61.1	19	8	US-11-101-244-661639	Sequence 661639,
C 37	11	61.1	19	8	US-11-101-244-661697	Sequence 661697,
C 38	11	61.1	19	8	US-11-101-244-716963	Sequence 716963,
C 39	11	61.1	19	8	US-11-101-244-716974	Sequence 716974,
C 40	11	61.1	19	8	US-11-101-244-725866	Sequence 725866,
C 41	11	61.1	19	8	US-11-101-244-764763	Sequence 764763,
C 42	11	61.1	19	8	US-11-101-244-764784	Sequence 764784,
C 43	11	61.1	19	8	US-11-101-244-764830	Sequence 764830,
C 44	11	61.1	19	8	US-11-101-244-799257	Sequence 799257,
C 45	11	61.1	19	8	US-11-101-244-828288	Sequence 828288,

ALIGNMENTS

RESULT 1

US-11-082-389-213/C
; Sequence 213, Application US/11082389
; Publication No. US20050244935A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
; FILE REFERENCE: BGI-131PCPN
; CURRENT APPLICATION NUMBER: US/11/082,389
; CURRENT FILING DATE: 2005-03-16
; PRIOR APPLICATION NUMBER: US 09/603024
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 60/143262
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: US 60/151281
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19930487.4
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19930489.0
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931549.3
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931550.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932134.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 446
; SEQ ID NO 213
; LENGTH: 1149
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (101)..(1126)
; OTHER INFORMATION: RXN00523

US-11-082-389-213

Query Match 77.8%; Score 14; DB 9; Length 1149;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAA 14
|||||
Db 242 GAGCAGGGCCATAA 229

RESULT 2

US-11-101-244-173294/c
; Sequence 173294, Application US/11101244
; Publication No. US200502467941
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 173294
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-173294

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AGCAGGGCCATA 13
|||||
Db 14 AGCAGGGCCATA 3

RESULT 3

US-11-101-244-339765
; Sequence 339765, Application US/11101244
; Publication No. US200502467941
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 339765
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-339765

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGGCCATAATTA 17
|||||
Db 8 GGGCCATAAUA 19

RESULT 4

US-11-101-244-600029/c
; Sequence 600029, Application US/11101244
; Publication No. US200502467941
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 600029
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-600029

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCAT 12
|||||
Db 14 GAGCAGGGCCAT 3

RESULT 5

US-11-101-244-1044082/c
; Sequence 1044082, Application US/11101244
; Publication No. US200502467941
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1044082
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1044082

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCAT 12
|||||
Db 14 GAGCAGGGCCAT 3

RESULT 6
US-11-101-244-1044118/c
; Sequence 1044118, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1044118
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1044118

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCAT 12
|||||
Db 16 GAGCAGGGCCAT 5

RESULT 7
US-11-101-244-1152178/c
; Sequence 1152178, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1152178
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1152178

Query Match 66.7%; Score 12; DB 8; Length 19;

Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCAT 12
|||||
Db 16 GAGCAGGGCCAT 5

RESULT 8
US-11-101-244-1152276/c
; Sequence 1152276, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1152276
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1152276

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCAT 12
|||||
Db 16 GAGCAGGGCCAT 5

RESULT 9
US-11-101-244-1311535/c
; Sequence 1311535, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1311535
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1311535

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 GGCCATAATTAT 18
|||||
Db 14 GGCCATAATTAT 3

RESULT 10

US-11-101-244-1430673
; Sequence 1430673, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1430673
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1430673

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 91.7%; Pred. No. 34;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCAT 12
|||||
Db 1 GAGCAGGGCCAU 12

RESULT 11

US-11-101-244-1430674
; Sequence 1430674, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1430674
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1430674

Query Match 66.7%; Score 12; DB 8; Length 19;
Best Local Similarity 91.7%; Pred. No. 34;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCAT 12
|||||
Db 4 GAGCAGGGCCAU 15

RESULT 12

US-11-083-784-173294/c
; Sequence 173294, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 173294
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-173294

Query Match 66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AGCAGGGCCATA 13
|||||
Db 14 AGCAGGGCCATA 3

RESULT 13

US-11-083-784-339765
; Sequence 339765, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 339765
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-339765

Query Match 66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 75.0%; Pred. No. 34;
Matches 9; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGCCCATATTA 17
Db 8 GGCCCAUAUUA 19

RESULT 14

US-11-083-784-600029/c
; Sequence 600029, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 600029
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-600029

Query Match 66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCAT 12
Db 14 GAGCAGGGCCAT 3

RESULT 15

US-11-083-784-1044082/c
; Sequence 1044082, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1044082
; LENGTH: 19
; TYPE: RNA

; ORGANISM: Homo sapiens
US-11-083-784-1044082

Query Match 66.7%; Score 12; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCAT 12
Db 14 GAGCAGGGCCAT 3

Search completed: November 29, 2005, 18:29:39
Job time : 137.5 secs

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OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 17:06:35 ; Search time 403.5 Seconds
(without alignments)
368.894 Million cell updates/sec

Title: US-10-018-716B-1

Perfect score: 18
Sequence: 1 gagcaggccataattat 18

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 9793542 seqs, 4134689005 residues

Word size : 0
Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA Main:
1: /cgn2_6/prodata/1/pubpna/US07_PUBCOMB.seq:
2: /cgn2_6/prodata/1/pubpna/US08_PUBCOMB.seq:
3: /cgn2_6/prodata/1/pubpna/US09A_PUBCOMB.seq:
4: /cgn2_6/prodata/1/pubpna/US09B_PUBCOMB.seq:
5: /cgn2_6/prodata/1/pubpna/US10A_PUBCOMB.seq:
6: /cgn2_6/prodata/1/pubpna/US10B_PUBCOMB.seq:
7: /cgn2_6/prodata/1/pubpna/US10C_PUBCOMB.seq:
8: /cgn2_6/prodata/1/pubpna/US10D_PUBCOMB.seq:
9: /cgn2_6/prodata/1/pubpna/US10E_PUBCOMB.seq:
10: /cgn2_6/prodata/1/pubpna/US11_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	18	100.0	441	4	US-09-925-065A-192589
C 2	18	100.0	441	4	US-09-925-065A-192590
C 3	18	100.0	1922	8	US-10-349-528-4
C 4	18	100.0	2019	7	US-10-382-248-9
C 5	18	100.0	2393	5	US-10-225-567A-121
C 6	18	100.0	2393	5	US-10-207-655-64
C 7	18	100.0	2393	6	US-10-305-720-1209
C 8	16	88.9	201	8	US-10-719-993-38475
C 9	16	88.9	612	4	US-09-925-065A-391076
C 10	16	88.9	261638	8	US-10-719-993-6882
C 11	15	83.3	461	4	US-09-925-065A-328046
C 12	15	83.3	507	6	US-10-172-118-2085
C 13	15	83.3	507	7	US-10-342-887-2085
C 14	15	83.3	533	4	US-09-925-065A-520324
C 15	15	83.3	544	4	US-09-925-065A-539398
C 16	15	83.3	612	5	US-10-007-280A-106
C 17	15	83.3	628	5	US-10-007-280A-107
C 18	15	83.3	842	5	US-10-027-632-160723
C 19	15	83.3	842	5	US-10-027-632-160724
C 20	15	83.3	842	6	US-10-027-632-160723
C 21	15	83.3	842	6	US-10-027-632-160724
C 22	15	83.3	1634	7	US-10-424-599-84619
C 23	15	83.3	2021	8	US-10-739-930-4619

ALIGNMENTS

RESULT 1
US-09-925-065A-192589/c
; Sequence 192589, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 192589
; LENGTH: 441
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-192589

Query Match 100.0%; Score 18; DB 4; Length 441;
Best Local Similarity 100.0%; Pred. No. 0.47; Indels 0; Gaps 0;
Matches 18; Conservative 0; Mismatches 0;

QY 1 GAGCAGGCGCATTAATTAT 18
|||||
Db 335 GAGCAGGCGCATTAATTAT 318

RESULT 2
US-09-925-065A-192590/c
; Sequence 192590, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome

C 24 15 83.3 3659 10 US-11-097-143-15251 Sequence 15251, A
C 25 15 83.3 9140 10 US-11-097-143-15250 Sequence 15250, A
C 26 15 83.3 76829 9 US-10-737-082-27 Sequence 27, Appl
C 27 15 83.3 76829 7 US-10-765-790-27 Sequence 27, Appl
C 28 15 83.3 180227 7 US-10-322-281-308 Sequence 308, App
C 29 15 83.3 202251 5 US-10-087-192-985 Sequence 985, App
C 30 15 83.3 325348 6 US-10-085-117-358 Sequence 358, App
C 31 14 77.8 219 7 US-10-719-900-825663 Sequence 825663, A
C 32 14 77.8 285 8 US-10-437-963-7570 Sequence 7570, App
C 33 14 77.8 465 4 US-09-925-065A-622260 Sequence 622260, A
C 34 14 77.8 465 4 US-09-925-065A-622261 Sequence 622261, A
C 35 14 77.8 465 4 US-09-925-065A-622262 Sequence 622262, A
C 36 14 77.8 574 5 US-10-066-543-3296 Sequence 3296, App
C 37 14 77.8 591 5 US-10-027-632-15415 Sequence 15415, A
C 38 14 77.8 591 5 US-10-027-632-15415 Sequence 15415, A
C 39 14 77.8 591 5 US-10-027-632-15415 Sequence 15415, A
C 40 14 77.8 591 6 US-10-027-632-15416 Sequence 15416, A
C 41 14 77.8 600 4 US-09-925-065A-895996 Sequence 895996, A
C 42 14 77.8 611 5 US-10-027-632-224562 Sequence 224562, A
C 43 14 77.8 611 6 US-10-027-632-224562 Sequence 224562, A
C 44 14 77.8 668 7 US-10-437-963-3301 Sequence 3301, App
C 45 14 77.8 668 7 US-10-437-963-3301 Sequence 3301, App

```
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 192590
; LENGTH: 441
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-192590
```

```
Query Match      100.0%; Score 18; DB 4; Length 441;
Best Local Similarity 100.0%; Pred. No. 0.47;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GAGCAGGGCCATAATTAT 18
Db      335 GAGCAGGGCCATAATTAT 318
|||||
```

```
RESULT 3
US-10-349-528-4/c
; Sequence 4, Application US/10349528
; Publication No. US2004025368A1
; GENERAL INFORMATION:
; APPLICANT: RAMANATHAN, Chandra
; APPLICANT: GOPAL, Shuba
; APPLICANT: MINTIER, Gabe
; APPLICANT: FEDER, John
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTOR (GPCR) VARIANTS AND METHODS OF
; FILE REFERENCE: D0210
; CURRENT APPLICATION NUMBER: US/10/349,528
; CURRENT FILING DATE: 2003-01-22
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 1922
; TYPE: DNA
; ORGANISM: HOMO SAPIENS
US-10-349-528-4
```

```
Query Match      100.0%; Score 18; DB 8; Length 1922;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GAGCAGGGCCATAATTAT 18
Db      28 GAGCAGGGCCATAATTAT 11
|||||
```

```
RESULT 4
US-10-382-248-9/c
; Sequence 9, Application US/10382248
; Publication No. US20040058347A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook, et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-568C
; CURRENT APPLICATION NUMBER: US/10/382,248
; CURRENT FILING DATE: 2003-03-05
; PRIOR APPLICATION NUMBER: 60/366,928
; PRIOR FILING DATE: 2002-03-22
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```
; PRIOR APPLICATION NUMBER: 60/361,974
; PRIOR FILING DATE: 2002-03-06
; PRIOR APPLICATION NUMBER: 60/365,477
; PRIOR FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: 60/401,661
; PRIOR FILING DATE: 2002-08-06
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: Curaseqlist version 0.1
; SEQ ID NO 9
; LENGTH: 2019
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (61)..(1959)
US-10-382-248-9
```

```
Query Match      100.0%; Score 18; DB 7; Length 2019;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GAGCAGGGCCATAATTAT 18
Db      72 GAGCAGGGCCATAATTAT 55
|||||
```

```
RESULT 5
US-10-225-567A-121/c
; Sequence 121, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenn C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 121
; LENGTH: 2393
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-225-567A-121
```

```
Query Match      100.0%; Score 18; DB 5; Length 2393;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GAGCAGGGCCATAATTAT 18
Db      78 GAGCAGGGCCATAATTAT 61
|||||
```

```
RESULT 6
US-10-207-655-64/c
; Sequence 64, Application US/10207655
; Publication No. US20030118592A1
; GENERAL INFORMATION:
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Hayden-Ledbetter, Martha S.
; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
; FILE REFERENCE: 390069.401C1
; CURRENT APPLICATION NUMBER: US/10/207,655
; CURRENT FILING DATE: 2002-07-25
; NUMBER OF SEQ ID NOS: 426
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 64
; LENGTH: 2393
```

```
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-207-655-64

Query Match      100.0%; Score 18; DB 5; Length 2393;
Best Local Similarity 100.0%; Pred. No. 0.48; 0; Indels 0; Gaps 0;
Matches 18; Conservative 0; Mismatches 0;

QY 1 GAGCAGGGCCATAATTAT 18
    |||||
Db 78 GAGCAGGGCCATAATTAT 61

RESULT 7
US-10-305-720-1209/c
; Sequence 1209, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
; SOFTWARE: PERL Program
; SEQ ID NO 1209
; LENGTH: 2393
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 GI82770
US-10-305-720-1209

Query Match      100.0%; Score 18; DB 6; Length 2393;
Best Local Similarity 100.0%; Pred. No. 0.48; 0; Indels 0; Gaps 0;
Matches 18; Conservative 0; Mismatches 0;

QY 1 GAGCAGGGCCATAATTAT 18
    |||||
Db 78 GAGCAGGGCCATAATTAT 61

RESULT 8
US-10-719-993-38475/c
; Sequence 38475, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38475
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-719-993-38475

Query Match      88.9%; Score 16; DB 8; Length 201;
Best Local Similarity 100.0%; Pred. No. 7.7; 0; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 0;

QY 3 GCAGGGCCATAATTAT 18
    |||||
Db 128 GCAGGGCCATAATTAT 113

RESULT 9
US-09-925-065A-391076/c
; Sequence 391076, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 391076
; LENGTH: 612
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-391076

Query Match      88.9%; Score 16; DB 4; Length 612;
Best Local Similarity 100.0%; Pred. No. 7.8; 0; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 0;

QY 2 AGCAGGGCCATAATTAT 17
    |||||
Db 580 AGCAGGGCCATAATTAT 565

RESULT 10
US-10-719-993-6882/c
; Sequence 6882, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6882
; LENGTH: 261638
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-719-993-6882

Query Match      88.9%; Score 16; DB 8; Length 261638;
Best Local Similarity 100.0%; Pred. No. 8.4; 0; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 0;

QY 3 GCAGGGCCATAATTAT 18
    |||||
Db 29154 GCAGGGCCATAATTAT 29139

RESULT 11
US-09-925-065A-328046/c
; Sequence 328046, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
```

```
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 328046
; LENGTH: 461
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-328046
```

```
Query Match      83.3%; Score 15; DB 4; Length 461;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 AGCAGGGCCATAATT 16
      |||||
Db      25 AGCAGGGCCATAATT 11
```

RESULT 12

```
US-10-172-118-2085
; Sequence 2085, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 2085
; LENGTH: 507
; TYPE: DNA
; ORGANISM: Homo sapiens
; DATABASE ACCESSION NUMBER: Contig23454
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-2085
```

```
Query Match      83.3%; Score 15; DB 6; Length 507;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 AGCAGGGCCATAATT 16
      |||||
Db      163 AGCAGGGCCATAATT 177
```

RESULT 13

```
US-10-342-887-2085
; Sequence 2085, Application US/10342887
; Publication No. US20040058340A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna
; APPLICANT: Van de Vijver, Marc J.
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-188-999
; CURRENT APPLICATION NUMBER: US/10/342,887
; CURRENT FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/298,918
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/380,710
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: 10/172,118
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 2085
; LENGTH: 507
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-342-887-2085
```

```
Query Match      83.3%; Score 15; DB 7; Length 507;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 AGCAGGGCCATAATT 16
      |||||
Db      163 AGCAGGGCCATAATT 177
```

RESULT 14

```
US-09-925-065A-520324
; Sequence 520324, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 520324
; LENGTH: 533
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-520324
```

```
Query Match      83.3%; Score 15; DB 4; Length 533;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 AGCAGGGCCATAATT 16
      |||||
Db      354 AGCAGGGCCATAATT 368
```

```
RESULT 15
US-09-925-065A-539398
; Sequence 539398, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 539398
; LENGTH: 544
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-539398
```

```
Query Match      83.3%; Score 15; DB 4; Length 544;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 AGCAGGGCCATAATT 16
Db      354 AGCAGGGCCATAATT 368
```

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Search completed: November 29, 2005, 20:39:06
Job time : 404.5 secs
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 18:25:08 ; Search time 894.5 Seconds
(without alignments)
1143.859 Million cell updates/sec

Title: US-10-018-716B-1

Perfect score: 18

Sequence: 1 gagcaggccataattat 18

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 5883141 seqs, 28421725653 residues

Word size : 0

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

GenEmbl.*

- 1: gb.ba.*
- 2: gb.in.*
- 3: gb.env.*
- 4: gb.om.*
- 5: gb.ov.*
- 6: gb.pat.*
- 7: gb.ph.*
- 8: gb.pr.*
- 9: gb.ro.*
- 10: gb.ste.*
- 11: gb.sy.*
- 12: gb.un.*
- 13: gb.vi.*
- 14: gb.htg.*
- 15: gb.pl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	18	100.0	856	8	HSFSTHR X68044 H.sapiens m
C 2	18	100.0	1724	8	S73199 follicle-st
C 3	18	100.0	1734	8	HSFSRX1 Z34260 H.sapiens D
C 4	18	100.0	2179	6	AR003719 Sequence AR003719 Sequence
C 5	18	100.0	2179	6	AR067576 Sequence AR067576 Sequence
C 6	18	100.0	2179	6	AR207283 Sequence AR207283 Sequence
C 7	18	100.0	2179	8	S59900 follicle st S59900 follicle st
C 8	18	100.0	2186	8	HUMSHREC M95489 H.sapiens f
C 9	18	100.0	2222	6	A76125 Sequence 1 A76125 Sequence 1
C 10	18	100.0	2374	6	CQ715054 Sequence CQ715054 Sequence
C 11	18	100.0	2393	6	AR270646 Sequence AR270646 Sequence
C 12	18	100.0	2393	6	AX548836 Sequence AX548836 Sequence
C 13	18	100.0	2393	8	HUMFSHRE M65085 Human folli
C 14	18	100.0	121688	8	AC092533 Homo sapi AC092533 Homo sapi
C 15	18	100.0	158709	14	AC083827 Homo sapi AC083827 Homo sapi
C 16	17	94.4	162	8	HSFSRX1 X91738 H.sapiens g
C 17	16	88.9	1041	5	AY625217 Priotelus AY625217 Priotelus
C 18	16	88.9	95681	8	AL157890 Human DNA AL157890 Human DNA

C 19	88.9	113657	14	AC162226	AC162226
C 20	88.9	121589	14	AC137655	AC137655
C 21	88.9	125311	8	AC068758	AC068758
C 22	88.9	127015	14	AC151504	AC151504
C 23	88.9	160179	14	AC092930	AC092930
C 24	88.9	168380	8	AC063933	AC063933
C 25	88.9	169314	14	AC148413	AC148413
C 26	88.9	169996	14	AC053521	AC053521
C 27	88.9	171267	14	AC154087	AC154087
C 28	88.9	171990	14	AC153783	AC153783
C 29	88.9	185798	14	AC158248	AC158248
C 30	88.9	187465	9	AC132305	AC132305
C 31	88.9	191709	9	AC115890	AC115890
C 32	88.9	197909	9	AC158658	AC158658
C 33	88.9	198551	9	AC068605	AC068605
C 34	88.9	210236	14	AC150699	AC150699
C 35	88.9	236157	14	AC111356	AC111356
C 36	88.9	258499	14	AC130987	AC130987
C 37	88.9	283919	14	AC095169	AC095169
C 38	83.3	481	6	AR496706	AR496706
C 39	83.3	481	6	AR511988	AR511988
C 40	83.3	612	6	AX554759	AX554759
C 41	83.3	628	6	AX554760	AX554760
C 42	83.3	1303	5	CR760514	CR760514
C 43	83.3	1437	5	BC061373	BC061373
C 44	83.3	1727	15	AB023467	AB023467
C 45	83.3	2652	8	BC034230	BC034230

ALIGNMENTS

RESULT 1
HSPSTHR/c
LOCUS HSPSTHR 856 bp mRNA linear PRI 07-FEB-1993
DEFINITION H.sapiens mRNA for follicle-stimulating hormone receptor.
ACCESSION X68044
VERSION X68044.1 GI:31473
KEYWORDS follicle stimulating hormone receptor.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
REFERENCE 1 (bases 1 to 856)
AUTHORS Gromoll, J., Gudermann, T. and Nieschlag, E.
TITLE Molecular cloning of a truncated isoform of the human follicle stimulating hormone receptor
JOURNAL Biochem. Biophys. Res. Commun. 188 (3), 1077-1083 (1992)
PUBMED 1359889
REFERENCE 2
AUTHORS Gromoll, J.
TITLE Direct Submission
JOURNAL Submitted (11-AUG-1992) J. Gromoll, Institut f Reproduktionsmedizin, Steinfurter Strasse 107, 4400 Muenster, FRG
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/tissue_type="testis"
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/db_xref="GOA:P23945"
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ERNFVGLSFESVILWLNKQIQEIHNCAFNGLDDELNLNNNLEELPNOVFHGS
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ORIGIN
Query Match      100.0%; Score 18; DB 8; Length 856;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGGCCATAATTAT 18
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Db 28 GAGCAGGGCCATAATTAT 11

RESULT 2
S73199/c
LOCUS      1724 bp      DNA      linear      PRI 28-FEB-1995
DEFINITION follicle-stimulating hormone receptor {5' region} [human, Genomic,
1724 nt].
ACCESSION  S73199
VERSION     S73199.1 GI:685036
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominoidea; Homo.
REFERENCE   1 (bases 1 to 1724)
AUTHORS    Gromoll,J., Dankbar,B. and Gudermann,T.
TITLE      Characterization of the 5' flanking region of the human
            follicle-stimulating hormone receptor gene
JOURNAL    Mol. Cell. Endocrinol. 102 (1-2), 93-102 (1994)
PUBMED     7926278
REMARK     GenBank staff at the National Library of Medicine created this
            entry [NCBI gibbsq 155309] from the original journal article.
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                /mol_type="genomic DNA"
                /db_xref="taxon:9606"
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            /gene="follicle-stimulating hormone receptor, FSHR"
            1487..1642
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            /note="FSHR"
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            /product="follicle-stimulating hormone receptor"
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            /db_xref="GI:685037"
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Query Match      100.0%; Score 18; DB 8; Length 1724;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGGCCATAATTAT 18
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Db 1498 GAGCAGGGCCATAATTAT 1481

RESULT 3
HSHFXH1/c
LOCUS      1734 bp      DNA      linear      PRI 24-JUL-1995
DEFINITION H.sapiens DNA for follicle stimulating hormone (FSH) receptor.
ACCESSION  Z34260
VERSION     Z34260.1 GI:1052701
KEYWORDS    follicle stimulating hormone receptor; FSH-receptor.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominoidea; Homo.
REFERENCE   1 (bases 1 to 1734)

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AUTHORS          Gromoll,J.
JOURNAL          Thesis (1994) Institute of Reproductive Medicine, University of
Muenster
REFERENCE        2 (bases 1 to 1734)
AUTHORS          Gromoll,J.
TITLE            Characterization of the 5'-flanking region of the human follicle
stimulating hormone receptor gene
JOURNAL          Unpublished
REFERENCE        3 (bases 1 to 1734)
AUTHORS          Gromoll,J.
TITLE            Direct Submission
JOURNAL          Submitted (01-JUN-1994) Gromoll J., University of Muenster
Institute of Reproductive Medicine Steinfurter Str. 107 Muenster
Germany 48149
FEATURES
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            intron
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Query Match      100.0%; Score 18; DB 8; Length 1734;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGGCCATAATTAT 18
    |||
Db 1498 GAGCAGGGCCATAATTAT 1481

RESULT 4
AR003719/c
LOCUS      2179 bp      DNA      linear      PAT 04-DEC-1998
DEFINITION Sequence 1 from patent US 5744448.
ACCESSION  AR003719
VERSION     AR003719.1 GI:3964978
KEYWORDS    Unknown.
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE     1 (bases 1 to 2179)
AUTHORS      Kelton,C. Ann., Cheng,S.Vui.Yen., Nugent,N.Patrice. and
Schweickhardt,R.Lynn.
TITLE        Human follicle stimulating hormone receptor
JOURNAL      Patent: US 5744448-A 1 28-APR-1998;
FEATURES     Location/Qualifiers
            source
            1..2179
                /organism="unknown"
                /mol_type="unassigned DNA"
ORIGIN
Query Match      100.0%; Score 18; DB 6; Length 2179;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGCAGGGCCATAATTAT 18
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Db 86 GAGCAGGGCCATAATTAT 69

RESULT 5
AR067576/c
LOCUS      2179 bp      DNA      linear      PAT 29-SEP-1999
DEFINITION Sequence 1 from patent US 5851768.
ACCESSION  AR067576

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VERSION	AR067576.1	GI:5998798	JOURNAL	Mol. Cell. Endocrinol. 89 (1-2), 141-151 (1992)
KEYWORDS	Unknown.		PUBMED	1301382
SOURCE	Unknown.		GenBank	entry [NCBI gibseq 130880] from the original journal article.
ORGANISM	Unclassified.		FEATURES	Location/Qualifiers
REFERENCE	1 (bases 1 to 2179)		source	1..2179
AUTHORS	de la Chapelle,A., Huhtaniemi,I. and Aittomaki,K.			/organism="Homo sapiens"
TITLE	Method for diagnosis of ovarian dysgenesis		gene	/mol_type="mRNA"
JOURNAL	Patent: US 5851768-A 1 22-DEC-1998;			/db_xref="taxon:9606"
FEATURES	Location/Qualifiers			1..2179
source	1..2179			/gene="follicle stimulating hormone receptor, FSH receptor"
	/organism="unknown"		CDS	75..2162
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ORIGIN				/note="FSH receptor"
Query Match	100.0%;	Score 18;	DB 6;	Length 2179;
Best Local Similarity	100.0%;	Pred. No. 5.6;		
Matches	18;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
Qy	1	GAGCAGGGCCATAATTAT 18		
Db	86	GAGCAGGGCCATAATTAT 69		
RESULT 6				
LOCUS	AR207283	2179 bp	DNA	linear
DEFINITION	Sequence 1 from patent US 6372711.			
ACCESSION	AR207283			
VERSION	AR207283.1	GI:21506147		
KEYWORDS	Unknown.			
SOURCE	Unknown.			
ORGANISM	Unclassified.			
REFERENCE	1 (bases 1 to 2179)			
AUTHORS	Kelton,C.Ann., Cheng,S.Vui.Yen., Nugent,N.Patrice. and Schweickhardt,R.Lynn.			
TITLE	Methods for assaying human FSH using human FSH receptor			
JOURNAL	Patent: US 6372711-A 1 16-APR-2002;			
FEATURES	Location/Qualifiers			
source	1..2179			
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	/mol_type="unassigned DNA"			
ORIGIN				
Query Match	100.0%;	Score 18;	DB 6;	Length 2179;
Best Local Similarity	100.0%;	Pred. No. 5.6;		
Matches	18;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
Qy	1	GAGCAGGGCCATAATTAT 18		
Db	86	GAGCAGGGCCATAATTAT 69		
RESULT 7				
LOCUS	S59900	2179 bp	mRNA	linear
DEFINITION	follicle stimulating hormone receptor [human, testis, mRNA, 2179 nt].			
ACCESSION	S59900			
VERSION	S59900.1	GI:300072		
KEYWORDS	Homo sapiens (human)			
SOURCE	Homo sapiens			
ORGANISM	Homo sapiens			
REFERENCE	1 (bases 1 to 2179)			
AUTHORS	Kelton,C.A., Cheng,S.V., Nugent,N.P., Schweickhardt,R.L., Rosenthal,J.L., Overton,S.A. Wands,G.D., Kuzeja,J.B., Luchette,C.A. and Chappel,S.C.			
TITLE	The cloning of the human follicle stimulating hormone receptor and its expression in COS-7, CHO, and Y-1 cells			
Qy	1	GAGCAGGGCCATAATTAT 18		
Db	86	GAGCAGGGCCATAATTAT 69		
RESULT 8				
LOCUS	HUMFSHREC	2186 bp	mRNA	linear
DEFINITION	H.sapiens follicle stimulating hormone receptor mRNA, complete cds.			
ACCESSION	M95489			
VERSION	M95489.1	GI:182772		
KEYWORDS	G-protein coupled receptor; follicle stimulating hormone (FSH) receptor.			
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens			
REFERENCE	1 (bases 1 to 2186)			
AUTHORS	Tilly,L., Ahara,T., Nishimori,K., Jai,X., Billig,H., Kowalski,K.I., Perlac,E.A. and Hsueh,A.J.W.			
TITLE	Expression of recombinant human follicle-stimulating hormone receptor: Species-specific ligand binding, signal transduction, and identification of multiple ovarian messenger ribonucleic acid transcripts			
JOURNAL	Endocrinology (1992) In press			
COMMENT	Original source text: Homo sapiens male adult testis cDNA to mRNA.			
FEATURES	Location/Qualifiers			
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CDS	/gene="FSHR"		TYILVPLSHLAQN"	
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	SSYMKVSIICLPMDIDSPLSQLYVMSLLVNLVAFVVICGYIHIYLTVRNPNIYSSSS			
	DTRIAXMAMLIFTDFLCMAPISEFAISASLKVPLITVSKAKILLVLPHPINSCANPF			
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ORIGIN				
Query Match	100.0%; Score 18; DB 8; Length 2186;			
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Matches	18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	1 GAGCAGGGCCATAATTAT 18			
Db	87 GAGCAGGGCCATAATTAT 70			
RESULT 9				
	A76125/c			
LOCUS	A76125			
	Sequence 1 from Patent WO9320199.			
ACCESSION	A76125			
	Version A76125.1 GI:6088261			
KEYWORDS	Homo sapiens (human)			
	Homo sapiens			
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;			
REFERENCE	1 (bases 1 to 2222)			
	Dijkema, R. and De, L. R.			
AUTHORS	HUMAN GONADOTROPIN RECEPTOR (FSH RECEPTOR)			
	Patent: WO 9320199-A 1 14-OCT-1993;			
JOURNAL	AKZO NV (NL); DIJKEVA REIN (NL)			
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ORIGIN				
Query Match	100.0%; Score 18; DB 8; Length 2186;			
	Best Local Similarity 100.0%; Pred. No. 5.6;			
Matches	18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	1 GAGCAGGGCCATAATTAT 18			
Db	87 GAGCAGGGCCATAATTAT 70			
RESULT 9				
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LOCUS	A76125			
	Sequence 1 from Patent WO9320199.			
ACCESSION	A76125			
	Version A76125.1 GI:6088261			
KEYWORDS	Homo sapiens (human)			
	Homo sapiens			
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;			
REFERENCE	1 (bases 1 to 2222)			
	Dijkema, R. and De, L. R.			
AUTHORS	HUMAN GONADOTROPIN RECEPTOR (FSH RECEPTOR)			
	Patent: WO 9320199-A 1 14-OCT-1993;			
JOURNAL	AKZO NV (NL); DIJKEVA REIN (NL)			
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	YDLNCEVVDVTCSPKDFNCEIDIMGNILRVIFISILAITGNIIVLLITTSQY			
	KLTVPRLMCLNAFADLCIGIYLLIASVDIHTKSOYHNYAIDWQTGACDAAGFTV			
	FASLSVVTLTATLIERWHITTHAMQLDCKVQLRHAASVMVMGWFAPAAALFIFGI			
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ORIGIN				
Query Match	100.0%; Score 18; DB 6; Length 2222;			
	Best Local Similarity 100.0%; Pred. No. 5.6;			
Matches	18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	1 GAGCAGGGCCATAATTAT 18			
Db	96 GAGCAGGGCCATAATTAT 79			
RESULT 10				
	CQ715054/c			
LOCUS	CQ715054			
	Sequence 988 from Patent WO02068579.			
ACCESSION	CQ715054			
	Version CQ715054.1 GI:42275911			
KEYWORDS	Homo sapiens (human)			
	Homo sapiens			
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;			
REFERENCE	1 (bases 1 to 2374)			
	Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W.			
AUTHORS	Kits, such as nucleic acid arrays, comprising a majority of			
	humanexons or transcripts, for detecting expression and other uses			
JOURNAL	thereof			
	Patent: WO 02068579-A 988 06-SEP-2002;			
FEATURES	PE Corporation (NY) (US)			
	Location/Qualifiers			
source	1..2374			
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	Best Local Similarity 100.0%; Pred. No. 5.6;			
Matches	18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	1 GAGCAGGGCCATAATTAT 18			
Db	79 GAGCAGGGCCATAATTAT 62			
RESULT 11				
	AR270646/c			
LOCUS	AR270646			
	Sequence 1209 from patent US 6500938.			

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATTAT 18
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Db 78 GAGCAGGGCCATAATTAT 61

RESULT 12
AX548836/c
LOCUS 2393 bp DNA linear PAT 26-NOV-2002
Sequence 121 from Patent WO02061087.
AX548836
ACCESSION
VERSION AX548836.1 GI:25813727
KEYWORDS
SOURCE Homo sapiens (human)

ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE
AUTHORS Burmer,G.C., Roush,C.L. and Brown,J.P.
TITLE Antigenic peptides, such as for G protein-coupled receptors (GPCRs), antibodies thereto, and systems for identifying such antigenic peptides
JOURNAL Patent: WO 02061087-A 121 08-AUG-2002;
Lifespan Biosciences, Inc. (US)

FEATURES
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 18; DB 6; Length 2393;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATTAT 18
|||||

Db 78 GAGCAGGGCCATAATTAT 61

RESULT 13
HUMFSHRE/c
LOCUS 2393 bp mRNA linear PRI 12-JAN-2005
Human follicle stimulating hormone receptor mRNA, complete cds.
M65085
ACCESSION
VERSION M65085.1 GI:182770
KEYWORDS follicle stimulating hormone (FSH) receptor.
SOURCE Homo sapiens (human)

ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE
AUTHORS Minegishi,T., Nakamura,K., Takakura,Y., Ibuki,Y., Igarashi,M. and Minegishi,T.
TITLE Cloning and sequencing of human FSH receptor cDNA
JOURNAL Biochem. Biophys. Res. Commun. 175 (3), 1125-1130 (1991)
PUBMED 1709010
COMMENT Original source text: Human, cDNA to mRNA.

FEATURES
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/map="Unassigned"

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67..2154
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/product="follicle stimulating hormone receptor"

/protein_id="AAA52477.1"
/db_xref="GI:182771"
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EKANNLLYITPEAFQNLNQLYLLISNTGIKHLPDVKHLSLQKVLIDQNNIHITI
ERNFSVLGSFESVILMLNKNGIQIHNCAPNGTQDQVNLSDNNRLLELNDVFGAS
GPVLDISRTIRHISLPSYGLNKKLRARSTYLNKLTLEKLVALMEASLTYPSHCC
YDLCEVVDVTCSPKPAFNPCEIDMGYNILRVLIWFIILAITGNIILVLITTSQY
KLTVPRLMCLNAPADLCIGIYLLLIASVDITHTKSOHNYAIDMTGTAGCDAAGFTV
PASELSVYTLTALTLESRHTTHAMQLDCKVOLRHAASVMWGMIFAAALFPFGI
SSYMKVSCLEPMDISPLSYMSLVNLVLAFFVICGCIHLYLTVRNPNIVSSSS
DTRIAKRAMLIFTFLCMADISFAISASLUKVLITVSKAKILLVLPHPNSCANPF
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ORIGIN
Query Match 100.0%; Score 18; DB 8; Length 2393;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATTAT 18
|||||

Db 78 GAGCAGGGCCATAATTAT 61

RESULT 14
AC092533
LOCUS 121688 bp DNA linear PRI 15-APR-2005
Homo sapiens BAC clone RP11-57110 from 2, complete sequence.
AC092533 AC027148
AC092533.1 GI:14718373

KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE
AUTHORS Haakenson,W. and Shah,N.
TITLE The sequence of Homo sapiens BAC clone RP11-57110
JOURNAL Unpublished (2001)
REFERENCE 2 (bases 1 to 121688)
AUTHORS Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (14-JUL-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA

REFERENCE 3 (bases 1 to 121688)
AUTHORS Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (25-JUL-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA

REFERENCE 4 (bases 1 to 121688)
AUTHORS Waterston,R.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-2002) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
REFERENCE 5 (bases 1 to 121688)
AUTHORS Wilson,R.K.
TITLE Direct Submission
JOURNAL Submitted (15-APR-2005) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA

COMMENT
On Jul 14, 2001 this sequence version replaced gi:7622375.
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu
Contact: submissions@watson.wustl.edu
----- Summary Statistics

Center project name: H_NH0057110
Drafting Center: WIBR

NOTICE:

This sequence was finished as follows unless otherwise noted:
all regions were double stranded, sequenced with an alternate
chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by sequence
from more than one subclone; and the assembly was confirmed by
restriction digest.

MAPPING INFORMATION:
Mapping information for this clone was provided by Dr. Wes Warren,
Department of Genetics, Washington University, St. Louis MO. For
additional information about the map position of this sequence, see
http://genome.wustl.edu

SOURCE INFORMATION:
The RPCI-11 human BAC library was made from the blood of one male
donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frengen, E.,
Tateno, M., Catanese, J.J. and de Jong, P.J. (1998) An improved
approach for construction of bacterial artificial chromosome
libraries. Genomics 51:1-8. The clone may be obtained either from
Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong
and coworkers at http://www.chori.org
VECTOR: pBACe3.6

NEIGHBORING SEQUENCE INFORMATION:
The clone sequenced to the left is RP11-125F24, 2000 bp overlap.
Actual start of this clone is at base position 9748 of RP11-125F24;
actual end is at base position 121688 of RP11-57110.

The sequence of AC027148 has been incorporated into AC092533.
Location/Qualifiers
1. 121688
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="2"
/clone_lib="RPCI-11"
/clone="RP11-57110"
complement(82833..83058)
/gene="FSHR"
complement(82833..83058)
/gene="FSHR"
complement(82833..82984)
/gene="FSHR"
/note="Homo sapiens follicle stimulating hormone receptor
(FSHR), transcript variant 1, mRNA.; H_NH0057110.1
This gene was based on gi(31657137)
Continues as H_NH0125F24.1"
/codon_start=1
/product="unknown"
/protein_id="AA88895.1"
/db_xref="GI:62630150"
/translation="MALLVSLAFLSLGSGCHHRICHCSNRVFLCQESKVTETPSDL
PRNAIEL"

Query Match 100.0%; Score 18; DB 8; Length 121688;
Best Local Similarity 100.0%; Pred. No. 5.6; Mismatches 0; Gaps 0;
Matches 18; Conservative 0; Indels 0;

Qy 1 GAGCAGGGCCCAATATT 18
|||||
Db 82973 GAGCAGGGCCCAATATT 82990

RESULT 15
AC083827

LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

REFERENCE
AUTHORS
TITLE
JOURNAL
AUTHORS
REFERENCE
TITLE
JOURNAL

COMMENT

AC083827
Homo sapiens chromosome 2 clone RP11-345C21, WORKING DRAFT
SEQUENCE, 23 unordered pieces.
AC083827
AC083827.2 GI:15375221
HTG; HTGS PHASE1; HTGS_DRAFT.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 158709)
Waterston,R.H.
The sequence of Homo sapiens clone
Unpublished
2 (bases 1 to 158709)
Waterston,R.H.
Direct Submission
Submitted (02-OCT-2000) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
On Aug 30, 2001 this sequence version replaced gi:10445290.

----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc/index.shtml
Contact: submissions@watson.wustl.edu
----- Project Information -----
Center project name: H_NH0345C21

----- Summary Statistics -----
Sequencing vector: M13; 100%
Sequencing method: plasmid; 0%
Chemistry: Dye-primer ET; 8% of reads
Chemistry: Dye-terminator Big Dye; 92% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 142571 bases at least Q40
Consensus quality: 147681 bases at least Q30
Consensus quality: 150874 bases at least Q20
Insert size: 167000; agarose-fp
Insert size: 156781; sum-of-contigs
Quality coverage: 3.10 in Q20 bases; agarose-fp
Quality coverage: 3.36 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 23 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 1192: contig of 1192 bp in length
* 1193 1292: gap of unknown length
* 1293 2772: contig of 1480 bp in length
* 2773 2872: gap of unknown length
* 2873 4401: contig of 1529 bp in length
* 4402 4501: gap of unknown length
* 4502 6753: contig of 2252 bp in length
* 6754 6853: gap of unknown length
* 6854 8763: contig of 1910 bp in length
* 8764 8864: gap of unknown length
* 8864 11063: contig of 2200 bp in length
* 11064 11163: gap of unknown length
* 11164 14152: contig of 2989 bp in length
* 14153 14252: gap of unknown length
* 14253 17321: contig of 3069 bp in length
* 17322 17422: gap of unknown length
* 17423 19872: contig of 2451 bp in length
* 19873 22886: contig of 2914 bp in length
* 22887 22986: gap of unknown length

FEATURES

ORIGIN

Qy 1 GAGCAGGGCCATAATTAT 18
Db 35240 GAGCAGGGCCATAATTAT 35257

Search completed: November 29, 2005, 23:42:24
Job time : 898.5 secB

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 18:22:32 ; Search time 223.5 Seconds
(without alignments)
536.754 Million cell updates/sec

Title: US-10-018-716B-1

Perfect score: 18

Sequence: 1 gagcagggccataattat 18

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 4996997 seqs, 332346308 residues

Word size : 0

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

- N_Geneseq_21.*
- 1: Geneseqn1980s.*
 - 2: Geneseqn190s.*
 - 3: Geneseqn2000s.*
 - 4: Geneseqn2001as.*
 - 5: Geneseqn2001bs.*
 - 6: Geneseqn2002as.*
 - 7: Geneseqn2002bs.*
 - 8: Geneseqn2003as.*
 - 9: Geneseqn2003bs.*
 - 10: Geneseqn2003cs.*
 - 11: Geneseqn2003ds.*
 - 12: Geneseqn2004as.*
 - 13: Geneseqn2004bs.*
 - 14: Geneseqn2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
C 1	18	100.0	18	4	AAC90409	Aac90409 Human FSH
C 2	18	100.0	18	4	AAC90408	Aac90408 Human FSH
C 3	18	100.0	1922	11	ADP03559	Adp03559 Human GPC
C 4	18	100.0	2019	10	ADC24202	Adc24202 Human NOV
C 5	18	100.0	2179	2	AAT63181	Aat63181 FSH recep
C 6	18	100.0	2180	2	AAQ29377	Aaq29377 FSHR DNA.
C 7	18	100.0	2222	2	AAQ50013	Aaq50013 FSH recep
C 8	18	100.0	2393	8	ABZ42665	Abz42665 Human fol
C 9	18	100.0	2393	10	ADP25503	Add25503 Binding d
C 10	18	100.0	2393	10	ACA56611	Aca56611 Human sig
C 11	18	100.0	2393	12	ADI56407	Adi56407 Human pol
C 12	18	100.0	2393	12	ADO29879	Ado29879 Human GPC
C 13	15	83.3	507	13	ADR26224	Adr26224 Breast ca
C 14	15	83.3	612	6	ABT03390	Abt03390 Ovary cel
C 15	15	83.3	628	6	ABT03391	Abt03391 Ovary cel
C 16	15	83.3	2021	13	ADL19293	Adl19293 Plant cdn
C 17	15	83.3	3659	4	ABL12007	Abli12007 Drosophil
C 18	15	83.3	8253	13	ADR84405	Adr84405 Aspergill
C 19	15	83.3	9140	4	ABL12006	Abli12006 Drosophil

20	15	83.3	76829	14	AEA61117	Aea61117 Human FLJ
C 21	15	83.3	180227	13	ABD33268	Abd33268 Human can
C 22	15	83.3	202251	11	ACN44504	Actn44504 Mouse gen
C 23	14	77.8	400	14	AE667475	Aeb667475 Rice geno
C 24	14	77.8	574	11	ADT97777	Adt97777 Colon can
C 25	14	77.8	574	11	ADX44259	Adx44259 Human cDN
C 26	14	77.8	810	8	ACA36201	Act36201 Prokaryot
C 27	14	77.8	900	11	ABD01221	Abd01221 Klebsiell
C 28	14	77.8	975	13	ADT45042	Adt45042 Bacterial
C 29	14	77.8	1059	5	AAH65707	Aah65707 C glutam
C 30	14	77.8	1149	4	AAF67932	Aaf67932 Corynebac
C 31	14	77.8	1200	14	ADZ62987	Adz62987 Murine Hs
C 32	14	77.8	1254	13	ADS59283	Ads59283 Bacterial
C 33	14	77.8	1506	13	ADS48503	Ads48503 Bacterial
C 34	14	77.8	1617	5	AAS93640	Aas93640 DNA encod
C 35	14	77.8	1887	4	AAI58166	Aai58166 Human pol
C 36	14	77.8	1887	5	ADQ98372	Adq98372 DNA encod
C 37	14	77.8	1887	9	ADB48132	Adb48132 Novel hum
C 38	14	77.8	1887	13	ADS47940	Ads47940 Bacterial
C 39	14	77.8	1903	4	AAH17958	Aah17958 Human cDN
C 40	14	77.8	2450	10	ADB68874	Adb68874 C. neoFor
C 41	14	77.8	2975	6	AAD29106	Aad29106 Human MDM
C 42	14	77.8	3678	2	AAQ53996	Aaq53996 Equine he
C 43	14	77.8	3678	2	AAX38299	Aax38299 Equine he
C 44	14	77.8	3762	11	ACH99131	Ach99131 Klebsiell
C 45	14	77.8	4262	2	AAT38484	Aat38484 Rat petri

ALIGNMENTS

RESULT 1

AAC90409/c

ID AAC90409 standard; RNA; 18 BP.

XX AAC90409;

XX 19-MAR-2001 (first entry)

XX Human FSH receptor specific antisense oligonucleotide #2.

XX Human; cytostatic; follicle-stimulating hormone receptor; FSHR;

XX fertility; menstrual cycle; chemopreventive; cancer; ss.

XX Homo sapiens.

XX WO200073416-A1.

XX 07-DEC-2000.

XX 16-MAY-2000; 2000WO-US013488.

XX 28-MAY-1999; 99US-0136489P.

XX 08-OCT-1999; 99US-0158612P.

(UYCI-) UNIV CINCINNATI.

XX Labarbera AR, Zhu C, Wang Y;

XX WPI; 2001-091069/10.

XX New composition for regulating fertility, and for chemoprevention and chemotherapy of cancer, comprises an antisense oligonucleotide that is complementary to a nucleotide sequence of a follicle-stimulating hormone receptor.

XX Claim 13; Page 29; 89pp; English.

XX The present invention relates to a composition, which comprises at least one antisense oligonucleotide that is complementary to follicle-stimulating hormone receptor (FSHR) coding sequence. The present sequence is one such oligonucleotide used in the composition. The composition of the present invention can be used for regulating hormones of a host. The

CC composition is also useful for regulating fertility and menstrual cycle.
CC In addition, the composition is useful as a chemopreventive or
CC chemotherapy for cancers (e.g. breast, bladder, cervix, lung, liver,
CC ovary, colon, stomach, or especially ovarian cancers), gestational
CC trophoblastic tumours or testicular germ cell tumours
XX
SQ Sequence 18 BP; 4 A; 5 C; 3 G; 0 T; 6 U; 0 Other;

Query Match 100.0%; Score 18; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATTAT 18
18 GAGCAGGGCCATAATTAT 1
Db

RESULT 2
AAC90408
ID AAC90408 standard; DNA; 18 BP.
XX
AC AAC90408;
XX
DT 19-MAR-2001 (first entry)
XX
DE Human FSH receptor specific antisense oligonucleotide #1.
XX
KW Human; cytostatic; follicle-stimulating hormone receptor; FSHR;
KW fertility; menstrual cycle; chemopreventive; chemotherapy; cancer; ss.
XX
OS Homo sapiens.
XX
PN WO200073416-A1.
XX
PD 07-DEC-2000.
XX
PF 16-MAY-2000; 2000WO-US013488.
XX
PR 28-MAY-1999; 99US-0136489P.
PR 08-OCT-1999; 99US-0158612P.
XX
PA (UYCI-) UNIV CINCINNATI.
XX
PI Labarbera AR, Zhu C, Wang Y;
XX
XX WPI; 2001-091069/10.
DR
XX
PT New composition for regulating fertility, and for chemoprevention and
PT chemotherapy of cancer, comprises an antisense oligonucleotide that is
PT complementary to a nucleotide sequence of a follicle-stimulating hormone
PT receptor.
XX
PS Claim 13; Page 29; 89pp; English.
XX
CC The present invention relates to a composition, which comprises at least
CC one antisense oligonucleotide that is complementary to follicle-
CC stimulating hormone receptor (FSHR) coding sequence. The present sequence
CC is one such oligonucleotide used in the composition. The composition of
CC the present invention can be used for regulating hormones of a host. The
CC composition is also useful for regulating fertility and menstrual cycle.
CC In addition, the composition is useful as a chemopreventive or
CC chemotherapy for cancers (e.g. breast, bladder, cervix, lung, liver,
CC ovary, colon, stomach, or especially ovarian cancers), gestational
CC trophoblastic tumours or testicular germ cell tumours
XX
SQ Sequence 18 BP; 6 A; 3 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 100.0%; Score 18; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATTAT 18
|||||

Db 1 GAGCAGGGCCATAATTAT 18

RESULT 3
ADP03559/c
ID ADP03559 standard; DNA; 1922 BP.
XX
AC ADP03559;
XX
DT 29-JUL-2004 (first entry)
XX
DE Human GPCR follicle stimulating hormone receptor variant "Gene 4" DNA.
XX
KW GPCR; G-protein coupled receptor; neuroprotective; nootropic;
KW tranquiliser; antimigraine; neuroleptic; antimanic; antidepressant;
KW anticonvulsant; antiparkinsonian; cytotatic; cardiac; hypotensive;
KW antianginal; analgesic; anorectic; anti-HIV; antiasthmatic; osteopathic;
KW uropathic; antitumor; antiallergic; cell cycle regulation; neurological;
KW severe mental retardation; dyskinesia; brain; spinal cord; affective;
KW neoplastic; cardiovascular; immunological; immune; endocrinal; growth;
KW eating; HIV infection; cancer; metabolic; pituitary;
KW chromosome identification; gene therapy; human; ds; gene;
KW follicle stimulating hormone; FSH receptor variant.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 17..1753
FT /*tag= a
FT /product= "Human GPCR follicle stimulating hormone
FT receptor variant "Gene 4" protein"
XX
PN WO20003062393-A2.
XX
PD 31-JUL-2003.
XX
PF 22-JAN-2003; 2003WO-US001911.
XX
PR 22-JAN-2002; 2002US-0350724P.
XX
PA (BRIM) BRISTOL-MYERS SQUIBB CO.
PI Ramanathan CS, Gopal S, Mintier G, Feder JN;
XX
XX WPI; 2003-618283/58.
DR P-PSDB; ADP03570.
XX
PT New nucleic acid molecule encoding a human G-protein coupled receptor,
PT useful for diagnosing, preventing or treating diseases involving the
PT receptor, e.g. Parkinson's disease, dementia, asthma, hypertension or
PT cancer.
XX
PS Claim 1; SEQ ID NO 4; 224pp; English.
XX
CC The invention relates to a novel isolated GPCR (G-protein coupled
CC receptor) nucleic acid molecule. The polynucleotide and polypeptide of
CC the invention demonstrate neuroprotective, nootropic, tranquiliser,
CC antimigraine, neuroleptic, antimanic, antidepressant, anticonvulsant,
CC antiparkinsonian, cytotatic, cardiac, hypotensive, antianginal,
CC analgesic, anorectic, anti-HIV, antiasthmatic, osteopathic, uropathic,
CC antitumor and antiallergic properties. The nucleic acid molecule and
CC polypeptide of the invention may be useful in diagnosing, preventing,
CC treating or ameliorating a medical condition, such as a disorder related
CC to aberrant G-protein coupled signalling, a disorder related to aberrant
CC cell cycle regulation, neurological disorders, severe mental retardation
CC and dyskinesias, brain disorders, spinal cord disorders, affective
CC disorders, immune-related disorders, cardiovascular disorders, immunological
CC disorders, neoplastic disorders, endocrinal diseases, growth
CC disorders, eating disorders, HIV infection, cancers, metabolic disorders
CC and pituitary disorders. Furthermore, the polynucleotide may be used in
CC chromosome identification, in identifying organisms from minute
CC biological samples, in gene therapy or as a molecular weight marker. The
CC current sequence is that of a human GPCR (G-protein coupled receptor) DNA

CC which was isolated by the method of the invention.

XX Sequence 1922 BP; 499 A; 504 C; 387 G; 532 T; 0 U; 0 Other;
SQ Query Match 100.0%; Score 18; DB 11; Length 1922;
Best Local Similarity 100.0%; Pred. No. 1.3; Indels 0; Gaps 0;
Matches 18; Conservative 0; Mismatches 0

QY 1 GAGCAGGGCCATAATTAT 18
DB 28 GAGCAGGGCCATAATTAT 11

RESULT 4
ADC24202/c
ID ADC24202 standard; cDNA; 2019 BP.

XX ADC24202;

DT 18-DEC-2003 (first entry)

XX Human NOV3a encoding cDNA SEQ ID NO:9.

XX human; NOVX; cardiac; antiarteriosclerotic; hypotensive; vasotropic;
KW dermatological; anorectic; immunosuppressive; cytostatic;
KW antiinfertility; haemostatic; anti-HIV; antiasthmatic; antiinflammatory;
KW neuroprotective; anabolic; nootropic; antiparkinsonian; gene therapy;
KW cardiomyopathy; atherosclerosis; hypertension; congenital heart defect;
KW pulmonary stenosis; scleroderma; obesity; metabolic disturbance; obesity;
KW transplantation; adrenoleukodystrophy; congenital adrenal hyperplasia;
KW prostate cancer; diabetes; metabolic disorder; neoplasm; adenocarcinoma;
KW fertility; haemophilia; graft versus host disease; AIDS;
KW bronchial asthma; Crohn's disease; multiple sclerosis;
KW infectious disease; anorexia; neurodegenerative disorder;
KW Alzheimer's disease; Parkinson's disease; immune disorder;
KW haematopoietic disorder; dyslipidaemia; wasting disorder; gene; ss.

XX Homo sapiens.

XX Key Location/Qualifiers
FT CDS 61..1962
FT /*tag= a
FT /product= "NOV3a"

XX WO2003076584-A2.

XX 18-SEP-2003.

XX 06-MAR-2003; 2003WO-US006951.

XX 06-MAR-2002; 2002US-0161974P.

XX 19-MAR-2002; 2002US-0365477P.

XX 22-MAR-2002; 2002US-0366928P.

XX 06-AUG-2002; 2002US-0401661P.

XX 05-MAR-2003; 2003US-00401661.

XX (CURA-) CURAGEN CORP.

XX Alsobrook JP, Burgess CE, Edinger SR, Gerlach VL, Ji W, Kekuda R;
PI Li L, Macdougall JR, Miller CE, Millet I, Patturajan M, Pena CSA;
PI Rieger DK, Sciore P, Shenoy SG, Smithson G, Spytek KA, Stone DU;
PI Voss EZ, Zhong M;

DR WPI; 2003-722330/68.

DR P-PSDB; ADC24203.

XX New NOVX polypeptides and nucleic acids, useful for diagnosing or
PT treating e.g. cardiomyopathy, atherosclerosis, hypertension, scleroderma,
PT obesity, prostate cancer, AIDS, bronchial asthma, Crohn's disease, or
PT multiple sclerosis.

XX Claim 20; SEQ ID NO 9; 229pp; English.

CC The present invention describes novel human proteins, designated NOVX
CC proteins. The NOVX sequences have cardiac, antiarteriosclerotic,
CC hypotensive, vasotropic, dermatological, anorectic, immunosuppressive,
CC cytostatic, antiinfertility, haemostatic, anti-HIV, antiasthmatic,
CC antiinflammatory, neuroprotective, anabolic, nootropic and
CC antiparkinsonian activities, and can be used in gene therapy. The NOVX
CC sequences can be used as a therapeutic in the manufacture of a medicament
CC for treating a syndrome associated with a human disease, such as a
CC pathology associated with NOVX. The NOVX proteins and nucleic acids
CC encoding them are useful for diagnosing or treating pathologies, diseases
CC or conditions associated with NOVX sequences, including cardiomyopathy,
CC atherosclerosis, hypertension, congenital heart defects, pulmonary
CC stenosis, scleroderma, obesity, metabolic disturbances associated with
CC obesity, transplantation, adrenoleukodystrophy, congenital adrenal
CC hyperplasia, prostate cancer, diabetes, metabolic disorders, neoplasm,
CC adenocarcinoma, fertility, haemophilia, graft versus host disease, AIDS,
CC bronchial asthma, Crohn's disease, multiple sclerosis, infectious
CC disease, anorexia, neurodegenerative disorders (e.g. Alzheimer's disease,
CC or Parkinson's disease), immune disorders, haematopoietic disorders,
CC dyslipidaemias, and wasting disorders associated with chronic diseases.
CC The proteins can also be used as immunogens to produce antibodies and as
CC vaccines. The sequences may further be used in chromosome mapping,
CC identifying individual from minute biological samples (tissue typing),
CC and in forensic identification of a biological sample. The present
CC sequence encodes human NOV3a from the present invention.

SQ Sequence 2019 BP; 527 A; 514 C; 411 G; 567 T; 0 U; 0 Other;

Query Match 100.0%; Score 18; DB 10; Length 2019;

Best Local Similarity 100.0%; Pred. No. 1.3; Indels 0; Gaps 0;

Matches 18; Conservative 0; Mismatches 0

QY 1 GAGCAGGGCCATAATTAT 18

DB 72 GAGCAGGGCCATAATTAT 55

RESULT 5

AAT63181/c

ID AAT63181 standard; DNA; 2179 BP.

XX AC AAT63181;

XX 20-JUN-1997 (first entry)

XX FSH receptor gene wild-type allele.

XX Follicle stimulating hormone receptor; FSH receptor; ovarian dysgenesis;
KW hypergonadotropic hypogonadism; diagnosis; ss.

XX Homo sapiens.

XX Key Location/Qualifiers
FT exon 70..227
FT /*tag= c
FT /note= "nucleotides 70-227 correspond to nucleotides 1-158 of fshr exon 1"

FT CDS 75..2159

FT /*tag= a

FT exon 228..298

FT /*tag= c

FT /note= "nucleotides 228-298 correspond to nucleotides 7-77 of fshr exon 2"

FT exon 299..373

FT /*tag= c

FT /note= "nucleotides 299-373 correspond to nucleotides 6-80 of fshr exon 3"

FT exon 374..450

FT /*tag= c

FT /note= "nucleotides 374-450 correspond to nucleotides 6-82 of fshr exon 4"

FT exon 451..520

FT /*tag= c

KW FSH; receptor; follicle stimulating hormone; GST;
 KW glutathione-S-transferase; primer; PCR; amplification;
 KW polymerase chain reaction; probe; antibody; overstimulation; ds.
 XX Homo sapiens.
 OS
 FH Key Location/Qualifiers
 FT CDS 85..2172
 FT /tag= a
 FT /product= "FSH_receptor"
 FT primer_bind 136..151
 FT /tag= b
 FT primer_bind 763..776
 FT /note= "first primer for GST-FSH-R1 and for GST-FSH-R2"
 FT primer_bind 763..776
 FT /tag= d
 FT primer_bind 770..787
 FT /note= "primer for GST-FSH-R3"
 FT primer_bind 770..787
 FT /tag= f
 FT primer_bind 1167..1183
 FT /note= "primer for GST-FSH-R1 and for GST-FSH-R3"
 FT primer_bind 1168..1183
 FT /tag= c
 FT primer_bind 1168..1183
 FT /note= "primer for GST-FSH-R3"
 XX WO9320199-A1.
 PN
 XX
 XX 14-OCT-1993.
 PD
 XX
 XX 29-MAR-1993; 93WO-EP000780.
 PF
 XX
 XX 30-MAR-1992; 92EP-00200886.
 PR
 XX
 XX (ALKU) AKZO NV.
 PA
 XX
 XX Dijkema R, De Leeuw R;
 PI
 XX
 XX WPI: 1993-336907/42.
 DR
 DR P-PSDB; AAR42082.
 XX
 PT New follicle stimulating hormone receptor - and derived antibodies, anti-
 PT idotypic antibodies, and transfected cells, useful e.g. in diagnosis and
 PT as antidote for FSH overstimulation.
 XX
 XX Disclosure; Page 20-23; 42pp; English.
 PS
 XX
 CC The primers given in AAO50029-34 were used in the cloning of GST-FSH- R1,
 CC GST-FSH-R2 and GST-FSH-R3 fusion protein constructs. Screening of the
 CC human testis cDNA library with a hFSH-R specific probe resulted in five
 CC recombinant phages positive in hybridisation. Sequence analysis was
 CC performed of the 2222 bp fragment of pGEM3Zc1 (AAQ50013). (Updated on 25-
 CC MAR-2003 to correct FN field.)
 CC
 XX
 SQ Sequence 2222 BP; 598 A; 565 C; 453 G; 606 T; 0 U; 0 Other;
 Query Match 100.0%; Score 18; DB 2; Length 2222;
 Best Local Similarity 100.0%; Pred. No. 1.3;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GAGCAGGGCCATAATTAT 18
 |||||
 DB 96 GAGCAGGGCCATAATTAT 79
 |||||
 RESULT 8
 ABZ42665/c
 ID ABZ42665 standard; DNA; 2393 BP.
 XX
 AC ABZ42665;
 XX
 DT 04-MAR-2003 (first entry)
 XX

DE Human follicle stimulating hormone receptor nucleotide SEQ ID NO:121.
 XX
 KW G protein-coupled receptor; GPCR; antigenic peptide; gene therapy;
 KW G protein-coupled receptor modulator; antibody; immune-related disease;
 KW growth-related disease; cell regeneration-related disease; AIDS; cancer;
 KW immunological-related cell proliferative disease; autoimmune disease;
 KW Alzheimer's disease; atherosclerosis; infection; osteoarthritis; allergy;
 KW osteoporosis; cardiomyopathy; inflammation; Crohn's disease; diabetes;
 KW graft versus host disease; Parkinson's disease; multiple sclerosis; pain;
 KW psoriasis; anxiety; depression; schizophrenia; dementia; memory loss;
 KW mental retardation; epilepsy; asthma; tuberculosis; obesity; nausea;
 KW hypertension; hypotension; renal disorder; rheumatoid arthritis; trauma;
 KW ulcer; gene; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO200261087-A2.
 XX
 XX 08-AUG-2002.
 PD
 XX
 PF 19-DEC-2001; 2001WO-US050107.
 XX
 PR 19-DEC-2000; 2000US-0257144P.
 XX
 XX (LIFE-) LIFESPAN BIOSCIENCES INC.
 PA
 XX
 PI Burner GC, Roush CL, Brown JP;
 XX
 XX WPI: 2003-046718/04.
 DR
 DR P-PSDB; ABP81619.
 XX
 XX New isolated antigenic peptides e.g., for G protein-coupled receptors
 PT (GPCR), useful for diagnosing and designing drugs for treating conditions
 PT in which GPCRs are involved, e.g. AIDS, Alzheimer's disease, cancer or
 PT autoimmune diseases.
 XX
 XX Disclosure; Fig 1; 523pp; English.
 PS
 XX
 CC The present invention describes antigenic peptides (I) comprising: (a)
 CC any one of 1601 sequences (see ABP82019 to ABP83619) of 12-24 amino
 CC acids. Also described: (1) an assay for the detection of a particular G
 CC protein-coupled receptor (GPCR) or a candidate polypeptide in a sample;
 CC and (2) an isolated antibody having high specificity and high affinity or
 CC avidity for a particular GPCR. (I) can be used as GPCR modulators and in
 CC gene therapy. The antigenic peptides for GPCRs are useful in detecting an
 CC antibody against a particular GPCR, and in the production of specific
 CC antibodies. The peptides and antibodies are also useful for detecting the
 CC presence or absence of corresponding GPCRs. The antigenic peptides for
 CC GPCRs and antibodies are useful for diagnosing and designing drugs for
 CC treating immune-related diseases, growth-related diseases, cell
 CC regeneration-related disease, immunological-related cell proliferative
 CC diseases, or autoimmune diseases, e.g. AIDS, Alzheimer's disease,
 CC atherosclerosis, bacterial, fungal, protozoan or viral infections,
 CC osteoarthritis, osteoporosis, cancer, cardiomyopathy, chronic and acute
 CC inflammation, allergies, Crohn's disease, diabetes, graft versus host
 CC disease, Parkinson's disease, multiple sclerosis, pain, psoriasis,
 CC anxiety, depression, schizophrenia, dementia, mental retardation, memory
 CC loss, epilepsy, asthma, tuberculosis, obesity, nausea, hypertension,
 CC hypotension, renal disorders, rheumatoid arthritis, trauma, ulcers, or
 CC any other disorder in which GPCRs are involved. The antibodies may be
 CC used in immunoassays and immunodiagnosis. ABZ42523 to ABZ42869 encode
 CC GPCR proteins given in ABP81675 to ABP82018, which are used in the
 CC exemplification of the present invention
 XX
 XX Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
 SQ
 Query Match 100.0%; Score 18; DB 8; Length 2393;
 Best Local Similarity 100.0%; Pred. No. 1.3;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GAGCAGGGCCATAATTAT 18
 |||||
 DB 78 GAGCAGGGCCATAATTAT 61
 |||||

RESULT 9
ADD25503/c
ID ADD25503 standard; DNA; 2393 BP.
XX AC ADD25503;
XX DT 15-JAN-2004 (first entry)
XX DE Binding domain-immunoglobulin fusion protein-associated DNA #36.
XX KW ds; Binding domain; immunoglobulin; fusion protein; cytostatic;
KW antiarthritic; immunosuppressive; antidiabetic; antithyroid;
KW neuroprotective; hinge region; immunoglobulin heavy chain;
KW CH2 constant region; CH3 constant region; IgG1;
KW antibody dependent cell-mediated cytotoxicity; ADCC; complement fixation;
KW malignant condition; B-cell disorder; melanoma; carcinoma; sarcoma;
KW rheumatoid arthritis; myasthenia gravis; Grave's disease;
KW type I diabetes mellitus; multiple sclerosis; autoimmune disease.
XX OS Unidentified.
XX PN US2003118592-A1.
XX PD 26-JUN-2003.
XX PF 25-JUL-2002; 2002US-00207655.
XX PR 17-JAN-2001; 2001US-0367358P.
PR 17-JAN-2002; 2002US-00053530.
PR 03-JUN-2002; 2002US-0385691P.
XX PA (GENE-) GENERAFT INC.
XX PI Ledbetter JA, Hayden-Ledbetter MS, Thompson PA;
XX WPI; 2003-801317/75.
XX DE New binding domain-immunoglobulin fusion protein, useful for treating a
PT subject having or suspected of having a malignant condition or a B-cell
PT disorder, e.g. melanoma, Grave's disease or autoimmune disease.
XX PS Disclosure; SEQ ID NO 64; 157pp; English.
XX OS Unidentified
XX PN Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
XX Query Match 100.0%; Score 18; DB 10; Length 2393;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAGCAGGGCCATAATTAT 18
Db 78 GAGCAGGGCCATAATTAT 61
RESULT 10
ACA56611/c
ID ACA56611 standard; CDNA; 2393 BP.
XX AC ACA56611;
XX DT 06-JUN-2003 (first entry)
XX DE Human signalling pathway polynucleotide probe SEQ ID NO 1209.
XX KW Human; probe; ss; array element; Parkinson's disease;
KW signalling pathway population; cancer; adenocarcinoma; leukaemia;
KW immunopathy; AIDS; asthma; neuropathy; Alzheimer's disease; microarray.
XX OS Homo sapiens.

XX PN US6500938-B1.
XX PD 31-DEC-2002.
XX PF 30-JAN-1998; 98US-00016434.
XX PR 30-JAN-1998; 98US-00016434.
XX PA (INCY-) INCYTE GENOMICS INC.
XX AU-Young J, Seilhamer JJ;
WPI; 2003-352189/33.
XX PT Combination of polynucleotide probes, useful as array elements in a
PT microarray for monitoring the expression of a number of target
PT polynucleotides.
XX PS Claim 1; SEQ ID NO 1209; 65pp; English.
XX OS The invention relates to a combination which, comprises a number of
CC polynucleotide probes comprising a sequence selected from one of the 1490
CC sequences mentioned in the specification. The combination is useful as an
CC array element in a microarray for monitoring the expression of a number
CC of target polynucleotides. The microarray is particularly useful in the
CC diagnosis and treatment of cancer and immunopathology and neuropathology.
CC The microarray is useful in diagnostics and treatment regimens, drug
CC discovery and development, toxicological and carcinogenicity studies,
CC forensics and pharmacogenomics. The microarray is also useful for
CC monitoring progression of diseases and for developing sophisticated
CC profiles for the effects of currently available therapeutic drugs. The
CC combination is also useful for purifying a subpopulation of mRNAs. The
CC and genomic fragments and in research and diagnostic applications. The
CC array can detect changes in expression in a large number of genes coding
CC for different signalling pathway populations which can be used to diagnose
CC various diseases including cancer e.g. adenocarcinoma and leukaemia,
CC immunopathies e.g. AIDS and asthma, neuropathies e.g. Alzheimer's disease
CC and Parkinson's disease. The present sequence represents a polynucleotide
CC probe of the invention. Note: The sequence data for this patent did not
CC form part of the printed specification but was obtained in electronic
CC format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?docID=06500938B1
XX PN Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
XX Query Match 100.0%; Score 18; DB 10; Length 2393;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GAGCAGGGCCATAATTAT 18
Db 78 GAGCAGGGCCATAATTAT 61
RESULT 11
ADI56407/c
ID ADI56407 standard; DNA; 2393 BP.
XX AC ADI56407;
XX DT 22-APR-2004 (first entry)
XX DE Human polynucleotide probe #1209.
XX KW Human; probe; ss; receptor-like polypeptide; transducing polypeptide;
KW effector-like polypeptide; cancer; immunopathology; neuropathology;
KW drug development; toxicology; carcinogenicity;
KW signalling pathway polypeptide; adrenal gland; bone;
KW bone marrow; brain; breast; cervix; tumour; immunopathology; AIDS;
KW diabetes; pancreatitis; osteoporosis; ulcerative colitis; neuropathology;
KW dementia; amnesia; epilepsy; Alzheimer's disease; depression.
XX OS

OS Homo sapiens.
 XX US2004010136-A1.
 XX
 XX 15-JAN-2004.
 XX
 XX 26-NOV-2002; 2002US-00305720.
 XX
 XX 30-JAN-1998; 98US-00016434.
 XX
 XX (INCY-) INCYTE GENOMICS INC.
 XX
 XX Au-Young J, Seilhamer JJ;
 XX
 XX WPI; 2004-090520/09.
 XX
 XX New composition comprising polynucleotide probes, useful as array
 XX elements in a microarray for monitoring the expression of target
 XX polynucleotides or purifying a subpopulation of mRNAs, cDNA, or genomic
 XX fragments.
 XX
 XX Claim 6; SEQ ID NO 1209; 73pp; English.
 XX
 XX The invention relates to a composition of polynucleotide probes
 XX comprising first polynucleotide probes comprising at least a portion of a
 XX gene encoding a receptor-like polypeptide, second polynucleotide probes
 XX comprising at least a portion of a gene encoding a transducing
 XX polypeptide and third polynucleotide probes comprising at least a portion
 XX of a gene encoding an effector-like polypeptide. The probes of the
 XX composition are useful as array elements in a microarray for monitoring
 XX the expression of target polynucleotides. The microarray is useful in the
 XX diagnosis and treatment of cancer, an immunopathology or a
 XX neuropathology. It can also be used for drug discovery and development,
 XX toxicological and carcinogenicity studies, forensics or pharmacogenomics.
 XX Microarrays can also be used for monitoring the progression of diseases
 XX that may be associated with the altered expression of signalling pathway
 XX polypeptides. The composition can also be used to purify a subpopulation
 XX of mRNAs, cDNAs, or genomic fragments in a sample. The expression profile
 XX is also useful for the diagnosis and treatment of cancer, e.g. cancers of
 XX the adrenal gland, bladder, bone, bone marrow, brain, breast or cervix,
 XX an immunopathology, e.g. AIDS, diabetes, pancreatitis, osteoporosis or
 XX ulcerative colitis, or a neuropathology, e.g. dementia, amnesia,
 XX epilepsy, Alzheimer's disease or depression. This sequence represents a
 XX human polynucleotide probe of the invention. Note: The sequence data for
 XX this patent did not form part of the printed specification but was
 XX obtained in electronic format directly from USPTO at
 XX seqdata.uspto.gov/sequence.html.
 XX
 XX Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
 XX
 XX Query Match 100.0%; Score 18; DB 12; Length 2393;
 XX Best Local Similarity 100.0%; Pred. No. 1.3;
 XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GAGCAGGGCCATAATTAT 18
 Db ||||||||||||||||
 78 GAGCAGGGCCATAATTAT 61
 RESULT 12
 ADO29879/c
 ID ADO29879 standard; cDNA; 2393 BP.
 AC ADO29879;
 XX
 XX 29-JUL-2004 (first entry)
 XX
 XX Human GPCR FSHR polynucleotide, SEQ ID NO:981.
 DE
 XX
 XX G protein-coupled receptor; GPCR; drug screening; diagnosis;
 KW transgenic mouse; neurological disorder; adrenal gland disorder;
 KW colon disorder; intestinal disorder; cardiovascular disorder;
 KW muscular disorder; blood disorder; immune disorder; bone disorder;

KW joint disorder; metabolic disorder; nutritive disorder; cancer;
 KW kidney disorder; liver disorder; lung disorder; breast disorder;
 KW ovary disorder; uterus disorder; prostate disorder; testis disorder;
 KW skin disorder; stomach disorder; pancreas disorder; spleen disorder;
 KW thymus disorder; thyroid disorder; antiparkinsonian; antimanic;
 KW cystostatic; antiinflammatory; vasotropic; antianginal; antiarrhythmic;
 KW CNS; central nervous system; respiratory; antidiarrhoeic; antidiabetic;
 KW virucide; hepatotropic; antibacterial; antianaemic; antiseborrhoeic;
 KW dermatological; antitumor; antithyroid; antiallergic; anorectic;
 KW immunosuppressive; nephrotropic; gene therapy; GPCR modulator; human;
 KW gene; ss.
 XX
 XX Homo sapiens.
 OS
 XX WO2004040000-A2.
 XX
 XX 13-MAY-2004.
 PD
 XX 09-SEP-2003; 2003WO-US028226.
 XX
 XX 09-SEP-2002; 2002US-0409303P.
 PF
 XX 09-APR-2003; 2003US-0461329P.
 XX
 XX (PRIM-) PRIMAL INC.
 PA
 XX Gaitanaris GA, Bergmann JE, Gragerov A, Hohmann J, Li F;
 XX Madisen L, McIlwain KL, Pavlova MN, Vassilatis D, Zeng H;
 PI
 XX WPI; 2004-190329/36.
 XX
 XX P-PSDB; ADO29321.
 DR
 XX Novel mammalian G protein coupled receptors, useful for identifying
 XX compounds that modulates diagnosing and treating disease condition
 XX associated with GPCR dysfunction e.g. autoimmune diseases, angina
 XX pectoris, Parkinson's disease.
 PT
 XX Claim 151; SEQ ID NO 981; 542pp; English.
 PS
 XX The invention relates to human and mouse G protein-coupled receptors
 XX (GPCRs) and nucleic acids encoding them. The invention also relates to
 XX sequences at least 90% identical to the GPCR proteins and nucleic acids
 XX of the invention; methods of treating, preventing or diagnosing diseases
 XX associated with GPCRs of the invention; methods of screening for
 XX compounds useful in the treatment of GPCR-related diseases; a transgenic
 XX mouse comprising a GPCR gene of the invention; a mouse comprising a
 XX mutation in a GPCR transgene or in an endogenous GPCR gene; cells derived
 XX from the transgenic mice; kits comprising several mice, each of which has
 XX a mutation in a different GPCR gene of the invention; and kits comprising
 XX probes which hybridise to GPCR polynucleotides of the invention. The
 XX invention further discloses variants of the GPCR polypeptides and vectors
 XX comprising a GPCR nucleic acid. The GPCR nucleic acids and proteins may
 XX be used in the diagnosis, treatment or prevention of a wide variety of
 XX diseases including neurological disorders (e.g. Alzheimer's disease,
 XX depression, diabetic neuropathy, Parkinson's disease or schizophrenia);
 XX disorders of the adrenal gland; disorders of the colon or intestine
 XX (e.g., Crohn's disease, diarrhoea, food poisoning or irritable bowel
 XX syndrome); cardiovascular disorders (e.g., angina, cardiac arrhythmia or
 XX myocardial infarction); muscular disorders; blood disorders (e.g.,
 XX anaemia or leukaemia); immune disorders (e.g., autoimmune disorders or
 XX AIDS); bone and joint disorders (e.g., osteoarthritis, rheumatoid
 XX arthritis, gout or osteoporosis); metabolic or nutritive disorders (e.g.,
 XX obesity, enzyme deficiency-related diseases or vitamin deficiency-related
 XX diseases); and disorders of the kidney, liver, lung, breast, ovary,
 XX uterus, prostate, testis, skin, stomach, pancreas, spleen, thymus and
 XX thyroid (e.g. cancers). The present sequence represents a GPCR-encoding
 XX nucleic acid of the invention. Note: The full sequence data for this
 XX patent did not form part of the printed specification; those sequences
 XX not shown were obtained in electronic format directly from WIPO at
 XX ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 2393 BP; 648 A; 596 C; 484 G; 665 T; 0 U; 0 Other;
 SQ
 XX Query Match 100.0%; Score 18; DB 12; Length 2393;

Best Local Similarity 100.0%; Pred. No. 1.3;		Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1 GAGCAGGGCCATAATTAT 18 	
Db	78 GAGCAGGGCCATAATTAT 61 	
RESULT 13		
ADR26224		
ID	ADR26224 standard; DNA; 507 BP.	
XX	AC	
XX	ADR26224;	
DT	21-OCT-2004 (first entry)	
XX	Breast cancer prognosis marker #2085.	
DE	ds; breast cancer; prognosis; gene expression; diagnosis.	
KW	Homo sapiens.	
OS		
XX	WO2004065545-A2.	
PN		
XX	05-AUG-2004.	
PD		
XX	15-JAN-2004; 2004WO-US001100.	
PF		
XX	15-JAN-2003; 2003US-00342887.	
PR	(ROSE-) ROSETTA INPHARMATICS LLC.	
PA	(NECA-) NETHERLANDS CANCER INST.	
XX		
PI	Van't Veer LJ, He Y;	
XX		
DR	WPI; 2004-593473/57.	
XX		
PT	Classifying a breast cancer patient according to prognosis comprises	
PT	determining the similarity between the level of expression of each of	
PT	five genes in a cell sample taken from patient, to control levels.	
XX		
PS	Disclosure; SEQ ID NO 2085; 228pp; English.	
CC	The invention relates to a method of classifying a breast cancer patient	
CC	according to prognosis by determining the similarity between the level of	
CC	expression of each of five genes for which markers are listed in the	
CC	specification, in a cell sample taken from the breast cancer patient, to	
CC	control levels of expression for each respective five genes to obtain a	
CC	patient similarity value. The methods are useful for classifying a breast	
CC	cancer patient according to prognosis. Kits and computer program products	
CC	are useful for data analysis using the diagnostic, prognostic and	
CC	statistical methods of the invention. This sequence corresponds to a	
CC	marker used in the method of the invention.	
XX		
SEQ	Sequence 507 BP; 151 A; 103 C; 90 G; 163 T; 0 U; 0 Other;	
Query Match 83.3%; Score 15; DB 13; Length 507;		
Best Local Similarity 100.0%; Pred. No. 64;		
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Qy	2 AGCAGGGCCATAATT 16 	
Db	163 AGCAGGGCCATAATT 177 	
RESULT 14		
ABT03390/c		
ID	ABT03390 standard; DNA; 612 BP.	
XX	AC	
XX	ABT03390;	
XX		
DT	28-NOV-2002 (first entry)	
XX		

Ovary cell-specific DNA sequence 106.	
DE	
XX	Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;
KW	ovary specific protein; ovarian cancer; breast cancer; ss; vaccine;
KW	gene therapy.
XX	
OS	Homo sapiens.
XX	
PN	WO200238606-A2.
XX	
PD	16-MAY-2002.
XX	
PF	07-NOV-2001; 2001WO-US046459.
XX	
PR	08-NOV-2000; 2000US-0246640P.
XX	
PA	(DIAD-) DIADEXUS INC.
XX	
PI	Sun Y, Recipon H, Salceda S, Liu C;
XX	
WPI	WPI; 2002-519297/55.
XX	
PT	Polypeptide and polynucleotides present in normal and neoplastic ovary
PT	cells, useful for identifying, monitoring, staging, diagnosing,
PT	preventing and treating ovarian cancer, and non-cancerous disease states
PT	in the ovary.
XX	
PS	Claim 1; Page 192; 247pp; English.
XX	
CC	The invention comprises amino acid and DNA sequences which are present in
CC	normal and neoplastic ovary cells. The DNA and protein sequences of the
CC	invention are useful for determining the presence of an ovary specific
CC	nucleic acid or an ovary specific protein in a sample. The DNA and
CC	protein sequences of the invention are useful for diagnosing and
CC	monitoring the presence and metastasis of ovarian cancer and breast
CC	cancer. Nucleotides ABT03285 - ABT03421 represents the ovary cell
CC	specific DNA sequences of the invention
XX	
SEQ	Sequence 612 BP; 202 A; 112 C; 108 G; 190 T; 0 U; 0 Other;
Query Match 83.3%; Score 15; DB 6; Length 612;	
Best Local Similarity 100.0%; Pred. No. 64;	
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	2 AGCAGGGCCATAATT 16
Db	303 AGCAGGGCCATAATT 289
RESULT 15	
ABT03391/c	
ID	ABT03391 standard; DNA; 628 BP.
XX	
AC	ABT03391;
XX	
DT	28-NOV-2002 (first entry)
XX	
DE	Ovary cell-specific DNA sequence 107.
XX	
KW	Ovary cell; neoplastic ovary cell; ovary specific nucleic acid;
KW	ovary specific protein; ovarian cancer; breast cancer; ss; vaccine;
KW	gene therapy.
XX	
OS	Homo sapiens.
XX	
PN	WO200238606-A2.
XX	
PD	16-MAY-2002.
XX	
PF	07-NOV-2001; 2001WO-US046459.
XX	
PR	08-NOV-2000; 2000US-0246640P.
XX	

Qy 2 AGCAGGGCCATAATT 16
Db 319 AGCAGGGCCATAATT 305

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Job time : 227.5 secs

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OM nucleic - nucleic search, using sw model

Run on: November 29, 2005, 17:06:31 ; Search time 72 Seconds
(without alignments)
444.390 Million cell updates/sec

Title: US-10-018-716B-1

Perfect score: 18

Sequence: 1 gagcagggccataattat 18

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Gapop_60.0 , Gapext 60.0

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Word size : 0

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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- 2: /cgn2_6/prodata/1/ina/5 COMB.seq.*
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- 9: /cgn2_6/prodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	18	100.0	2179	2	US-08-487-886-1
C 2	18	100.0	2179	2	US-08-531-070A-1
C 3	18	100.0	2179	3	US-08-482-855-1
C 4	18	100.0	2179	3	US-08-474-986-1
C 5	18	100.0	2393	3	US-09-016-434-1209
C 6	15	83.3	481	3	US-09-270-767-1666
C 7	15	83.3	481	3	US-09-270-767-16948
C 8	15	83.3	52992	3	US-09-949-016-16105
C 9	14	77.8	900	3	US-09-489-039A-6996
C 10	14	77.8	1149	3	US-09-602-787A-379
C 11	14	77.8	1887	3	US-09-620-312D-42
C 12	14	77.8	3678	3	US-09-112-580-13
C 13	14	77.8	3762	3	US-09-489-039A-4926
C 14	14	77.8	55264	3	US-09-949-016-15014
C 15	14	77.8	70828	3	US-09-949-016-12122
C 16	14	77.8	94755	3	US-09-949-016-11839
C 17	14	77.8	101951	3	US-09-949-016-15648
C 18	14	77.8	137226	3	US-09-949-016-13763
C 19	14	77.8	139936	3	US-09-949-016-11782
C 20	14	77.8	139952	3	US-09-949-016-13280
C 21	14	77.8	147840	3	US-09-949-016-15236
C 22	13	72.2	25	3	US-09-396-196G-4948
C 23	13	72.2	339	3	US-09-489-039A-6054
C 24	13	72.2	459	3	US-09-248-796A-1604

C 25	13	72.2	601	3	US-09-949-016-48726	Sequence 48726, A
C 26	13	72.2	601	3	US-09-949-016-156620	Sequence 156620, A
C 27	13	72.2	601	3	US-09-949-016-160355	Sequence 160355, A
C 28	13	72.2	601	3	US-09-949-016-160356	Sequence 160356, A
C 29	13	72.2	668	3	US-09-533-559-5223	Sequence 5223, Ap
C 30	13	72.2	886	2	US-08-469-427A-1	Sequence 1, Appl
C 31	13	72.2	886	2	US-08-609-443B-1	Sequence 1, Appl
C 32	13	72.2	886	2	US-08-569-063C-1	Sequence 1, Appl
C 33	13	72.2	886	3	US-08-851-896-1	Sequence 1, Appl
C 34	13	72.2	1443	3	US-09-489-039A-5874	Sequence 5874, Ap
C 35	13	72.2	2554	3	US-09-701-868-4	Sequence 4, Appl
C 36	13	72.2	7883	3	US-09-949-016-13183	Sequence 13183, A
C 37	13	72.2	8773	3	US-09-949-016-14496	Sequence 14496, A
C 38	13	72.2	9792	3	US-09-635-872A-14	Sequence 14, Appl
C 39	13	72.2	9792	3	US-09-636-077A-14	Sequence 14, Appl
C 40	13	72.2	9792	3	US-09-636-060C-14	Sequence 14, Appl
C 41	13	72.2	9792	3	US-09-986-553-14	Sequence 14, Appl
C 42	13	72.2	9792	3	US-09-636-596C-14	Sequence 14, Appl
C 43	13	72.2	9792	3	US-10-023-894-21	Sequence 21, Appl
C 44	13	72.2	9792	3	US-10-306-686-14	Sequence 14, Appl
C 45	13	72.2	9792	3	US-09-895-072-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-08-487-886-1/c
; Sequence 1, Application US/08487886
; Patent No. 5744448
; GENERAL INFORMATION:
; APPLICANT: Kelton, Christie Ann
; APPLICANT: Schweickhardt, Rene Lynn
; APPLICANT: Cheng, Shirley Vui Yen
; APPLICANT: Nugent, No. 5744448een Patrice
; TITLE OF INVENTION: Human Follicle Stimulating
; TITLE OF INVENTION: Hormone Receptor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Stephan P. Williams,
; ADDRESSES: Ares-Serono, Inc.
; STREET: Exchange Place, 37th floor
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
; COMPUTER: IBM PS/2, model 55 SX
; OPERATING SYSTEM: MS-DOS version 4.0
; SOFTWARE: VAX/VMS Massll via Kermit to IBM MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,886
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/670,085
; FILING DATE: 15-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Stephan P.
; REGISTRATION NUMBER: 28546
; REFERENCE/DOCKET NUMBER: US/252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 723-1300
; TELEFAX: (617) 723-8923
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2179
; TYPE: Nucleic acid
; STRANDEDNESS: Double
; TOPOLOGY: Linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:

```
; ORGANISM: Homo sapiens
; TISSUE TYPE: Testis
; IMMEDIATE SOURCE:
; LIBRARY: lgt11 cdna library, Clontech #HL1010b
; CLONE: pFHSR11-11, pFHSR15-6
; FEATURE:
; NAME/KEY: protein coding region
; LOCATION: 75 to 2159
US-08-487-886-1

Query Match      100.0%; Score 18; DB 2; Length 2179;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GAGCAGGGCCATAATTAT 18
Db      |||||
        86 GAGCAGGGCCATAATTAT 69

RESULT 2
US-08-531-070A-1/c
; Sequence 1, Application US/08531070A
; Patent No. 5851768
; GENERAL INFORMATION:
; APPLICANT: de la Chapelle, Albert
; APPLICANT: Aittomaki, Kristiina
; APPLICANT: Huhtaniemi, Ilpo
; TITLE OF INVENTION: Method For Diagnosis Of Ovarian Dysgenesis
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/531,070A
; FILING DATE: 20-SEP-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Gass, David A.
; REGISTRATION NUMBER: 38,153
; REFERENCE/DOCKET NUMBER: 28113/32879
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2179 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-531-070A-1
```

```
Query Match      100.0%; Score 18; DB 2; Length 2179;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 GAGCAGGGCCATAATTAT 18
Db      |||||
        86 GAGCAGGGCCATAATTAT 69
```

```
RESULT 3
US-08-482-855-1/c
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; Sequence 1, Application US/08482855
; Patent No. 6121016
; GENERAL INFORMATION:
; APPLICANT: Kelton, Christie Ann
; APPLICANT: Schweickhardt, Rene Lynn
; APPLICANT: Cheng, Shirley Vui Yen
; APPLICANT: Nugent, No. 6121016een Patrice
; TITLE OF INVENTION: Human Follicle Stimulating
; TITLE OF INVENTION: Hormone Receptor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Stephan P. Williams,
; ADDRESSEE: Ares-Serono, Inc.
; STREET: Exchange Place, 37th floor
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
; COMPUTER: IBM PS/2, model 55 SX
; OPERATING SYSTEM: MS-DOS version 4.0
; SOFTWARE: VAX/VMS Massll via Kermit to IBM MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/482,855
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/670,085
; FILING DATE: 15-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Stephan P.
; REGISTRATION NUMBER: 28546
; REFERENCE/DOCKET NUMBER: US/252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 723-1300
; TELEFAX: (617) 723-8923
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2179
; TYPE: Nucleic acid
; STRANDEDNESS: Double
; TOPOLOGY: Linear
; MOLECULE TYPE: cdna to mRNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; TISSUE TYPE: Testis
; IMMEDIATE SOURCE:
; LIBRARY: lgt11 cdna library, Clontech #HL1010b
; CLONE: pFHSR11-11, pFHSR15-6
; FEATURE:
; NAME/KEY: protein coding region
; LOCATION: 75 to 2159
US-08-482-855-1
```

```
Query Match      100.0%; Score 18; DB 3; Length 2179;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GAGCAGGGCCATAATTAT 18
Db      |||||
        86 GAGCAGGGCCATAATTAT 69
```

```
RESULT 4
US-08-474-986-1/c
; Sequence 1, Application US/08474986
; Patent No. 6372711
; GENERAL INFORMATION:
; APPLICANT: Kelton, Christie Ann
; APPLICANT: Schweickhardt, Rene Lynn
; APPLICANT: Cheng, Shirley Vui Yen
; APPLICANT: Nugent, No. 6372711een Patrice
```

;; TITLE OF INVENTION: Human Follicle Stimulating
;;
;; NUMBER OF SEQUENCES: 2
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Stephan P. Williams,
;; Ares-Serono, Inc.
;; STREET: Exchange Place, 37th floor
;; CITY: Boston
;; STATE: MA
;; COUNTRY: USA
;; ZIP: 02109
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: 3.5" diskette, 1.44 MB, high density
;; COMPUTER: IBM PS/2, model 55 SX
;; OPERATING SYSTEM: MS-DOS version 4.0
;; SOFTWARE: VAX/VMS Massell via Kermit to IBM MS-DOS
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/474,986
;; FILING DATE: 07-Jun-1995
;; CLASSIFICATION: <Unknown>
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/670,085
;; FILING DATE: <Unknown>
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Williams, Stephan P.
;; REGISTRATION NUMBER: 28546
;; REFERENCE/DOCKET NUMBER: US/252
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 723-1300
;; TELEFAX: (617) 723-8923
;;
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 2179
;; TYPE: Nucleic acid
;; STRANDEDNESS: Double
;; TOPOLOGY: Linear
;; MOLECULE TYPE: cdna to mRNA
;; ORIGINAL SOURCE:
;; ORGANISM: Homo sapiens
;; TISSUE TYPE: Testis
;; IMMEDIATE SOURCE:
;; LIBRARY: lgt11 cdna library, Clontech #HL1010b
;; CLONE: pFHSR11-11, pFHSR15-6
;;
;; FEATURE:
;; NAME/KEY: protein coding region
;; LOCATION: 75 to 2159
;; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-08-474-986-1

Query Match 100.0%; Score 18; DB 3; Length 2179;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATTAT 18
| | | | | | | | | | | | | | | | | | | | | |
Db 86 GAGCAGGGCCATAATTAT 69

RESULT 5
US-09-016-434-1209/c
; Sequence 1209, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Sellhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA

;; COUNTRY: USA
;; ZIP: 94304
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/016,434
;; FILING DATE: HERewith
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; CLASSIFICATION:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Zeller, Karen J.
;; REGISTRATION NUMBER: 37,071
;; REFERENCE/DOCKET NUMBER: PA-0002 US
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (650) 855-0555
;; TELEFAX: (650) 845-4166
;; INFORMATION FOR SEQ ID NO: 1209:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 2393 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; LIBRARY: GENBANK
;; CLONE: g182770
US-09-016-434-1209

Query Match 100.0%; Score 18; DB 3; Length 2393;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAATTAT 18
| | | | | | | | | | | | | | | | | | | | | |
Db 78 GAGCAGGGCCATAATTAT 61

RESULT 6
US-09-270-767-1666/c
; Sequence 1666, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1666
; LENGTH: 481
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-1666

Query Match 83.3%; Score 15; DB 3; Length 481;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAAT 15
| | | | | | | | | | | | | | | | | | | | | |
Db 199 GAGCAGGGCCATAAT 185

RESULT 7
US-09-270-767-16948/c
; Sequence 16948, Application US/09270767
; Patent No. 6703491

```
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16948
; LENGTH: 481
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-16948

Query Match      83.3%; Score 15; DB 3; Length 481;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GAGCAGGGCCATAAT 15
        |||||
Db      199 GAGCAGGGCCATAAT 185

RESULT 8
US-09-949-016-16105
; Sequence 16105, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16105
; LENGTH: 52992
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16105

Query Match      83.3%; Score 15; DB 3; Length 52992;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4 CAGGGCCATAATTAT 18
        |||||
Db      1227 CAGGGCCATAATTAT 1241

RESULT 9
US-09-489-039A-6996/c
; Sequence 6996, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 6996
; LENGTH: 900
```

```
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-6996

Query Match      77.8%; Score 14; DB 3; Length 900;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 AGCAGGGCCATAAT 15
        |||||
Db      137 AGCAGGGCCATAAT 124

RESULT 10
US-09-602-787A-379/c
; Sequence 379, Application US/09602787A
; Patent No. 6696561
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Mark
; APPLICANT: Krüger, Burkhard
; APPLICANT: Schöder, Hartwig
; APPLICANT: Zeidler, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
; TITLE OF INVENTION: TRANSPORT
; FILE REFERENCE: BGI-125CP
; CURRENT APPLICATION NUMBER: US/09/602,787A
; CURRENT FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: USN 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: DE 19931454.3
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931478.0
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931563.9
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932122.1
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932124.8
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932125.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932128.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932180.9
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932182.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932190.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932191.4
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932209.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932212.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932227.9
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932228.7
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932229.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932230.9
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932927.3
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933005.0
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933006.9
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19940764.9
; PRIOR FILING DATE: 1999-08-27
```

; PRIOR APPLICATION NUMBER: DE 19940765.7
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940766.5
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940830.0
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940831.9
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940832.7
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19940833.5
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19941378.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941395.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19942077.7
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: DE 19942078.5
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: DE 19942079.3
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: DE 19942088.2
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 678
; SEQ ID NO 379
; LENGTH: 1149
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (101)..(1126)
; OTHER INFORMATION: RXN00523
US-09-602-787A-379

Query Match 77.8%; Score 14; DB 3; Length 1149;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAA 14
|||||
Db 242 GAGCAGGGCCATAA 229

RESULT 11
US-09-620-312D-42
; Sequence 42, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yundong
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radojie T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19

; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_FL_genes Version 1.0
; SEQ ID NO 42
; LENGTH: 1887
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (55)..(1563)
US-09-620-312D-42

Query Match 77.8%; Score 14; DB 3; Length 1887;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AGCAGGGCCATAAT 15
|||||
Db 883 AGCAGGGCCATAAT 896

RESULT 12
US-09-112-580-13/c
; Sequence 13, Application US/09112580
; Patent No. 6610539
; GENERAL INFORMATION:
; APPLICANT: WRIGHT, Jim A.
; APPLICANT: YOUNG, Aiping
; APPLICANT: DUGOURD, Dominique
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE SEQUENCES AS INHIBITORS OF
; TITLE OF INVENTION: MICROORGANISMS
; FILE REFERENCE: 032396-016
; CURRENT APPLICATION NUMBER: US/09/112,580
; CURRENT FILING DATE: 1998-07-09
; EARLIER APPLICATION NUMBER: US 60/052,160
; EARLIER FILING DATE: 1997-07-10
; NUMBER OF SEQ ID NOS: 265
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 13
; LENGTH: 3678
; TYPE: DNA
; ORGANISM: Equine herpesvirus 4
US-09-112-580-13

Query Match 77.8%; Score 14; DB 3; Length 3678;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 AGGGCCATAATTAT 18
|||||
Db 2492 AGGGCCATAATTAT 2479

RESULT 13
US-09-489-039A-4926
; Sequence 4926, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 4926
; LENGTH: 3762
; TYPE: DNA

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; ORGANISM: Klebsiella pneumoniae
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1044),(1659)
; OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
US-09-489-039A-4926

Query Match
Best Local Similarity 77.8%; Score 14; DB 3; Length 3762;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCAGGGCCATAA 14
   |||||
Db 3709 GAGCAGGGCCATAA 3722

RESULT 14
US-09-949-016-15014/c
; Sequence 15014, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15014
; LENGTH: 55264
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15014

Query Match
Best Local Similarity 77.8%; Score 14; DB 3; Length 55264;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CAGGGCCATAATTA 17
   |||||
Db 41078 CAGGGCCATAATTA 41065

RESULT 15
US-09-949-016-12122
; Sequence 12122, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12122
; LENGTH: 70828
; TYPE: DNA
; ORGANISM: Human
```

```
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(70828)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12122

Query Match
Best Local Similarity 77.8%; Score 14; DB 3; Length 70828;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CAGGGCCATAATTA 17
   |||||
Db 35400 CAGGGCCATAATTA 35413

Search completed: November 29, 2005, 18:24:59
Job time : 73 secs
```